

Faculty Profile

Name : Dr. N. C. Balaji Designation : Associate Professor & HoD Department : Civil Engineering Contact Details: +91 98865 04699 E-mail : balajinc@nie.ac.in Phone : 0821- 4004903	
---	---

About me: **Dr. N. C. Balaji** is Associate Professor and Head, Department of Civil Engineering, The National Institute of Engineering, Mysuru. He holds a Ph.D. from the Centre for Sustainable Technologies, Indian Institute of Science (IISc), Bangalore, specialising in Building Science and Structural Engineering. His research encompasses building energy and thermal performance, low-carbon building materials, design of RC/Steel/Masonry structures, fire damage assessment, and repair and retrofitting of structures. He currently supervises four ongoing Ph.D. scholars. He holds one granted Indian Patent and serves as Principal Member on BIS committees (CED 45 & EED 07) and as Editorial Board Member for a Springer Nature journal. Notable recognitions include the Outstanding Reviewer Award (Springer, 2016), multiple Best Paper Awards. He has been recognised as NPTEL Star Motivated Learners and Believers. Published 8 journals, 9 book chapters, and presented at over 45 conferences globally.

Qualification:

- 2017:** *Ph.D.*, from Centre for Sustainable Technologies, *Indian Institute of Science (IISc)*, Bangalore, India.
- 2008:** *M.Sc., (Engg.) by Research (Structures)*, VTU, Belgaum, India, (The National Institute of Engineering, Mysuru)
Dissertation title: “*Behaviour of Brick Masonry Domes*”
- 2005:** *B.E., (Civil Engg.)*, Visveswaraiah Technological University (VTU), Belgaum, India, (The National Institute of Engineering, Mysuru)
- 2000:** *Diploma in Civil Engineering (D.C.E.)*, C.P.C (Govt.) Polytechnic, Mysore, India

Courses Taught:

Under Graduate Courses	Post Graduate Courses
– Structural Health Monitoring Using Sensors	– Mechanics of Deformable Bodies & Fracture Mechanics
– Sustainable Technologies and Green Building Concepts	– Repair Rehabilitation & Maintenance of Structures
– Design of Steel Structures	– Fire Resistance of Structures
– Alternative Building Materials & Structural Masonry	– Building Information Modelling (BIM)
– Design and Drawing of Bridges	– Masonry Structures

Publications:

Journal Publications:

1. Lakshmi P.S., B.S. Jayashankar Babu, **N.C. Balaji**, and Priyanka D.K., (2019), "Experimental Investigation on Utilization of Sugarcane Bagasse Ash as a Cementitious Material in Mortar", International Journal for research in Applied Science & Engineering Technology, 7(6), June 2019 pp.351-358.
2. Lakshmi P.S., B.S. Jayashankar Babu, **N.C. Balaji**, and Chaithra G.B., (2019), "Influence of Bagasse Ash Replacement on Strength Properties of Cement Mortar", International Journal of Civil Engineering and Technology, 10(5), May 2019 pp. 954-962.
3. Varchas Koushik and **N.C. Balaji**, (2019), "Reinforced Concrete Jacketed Column and Its Formwork", International Journal of Innovative Technology and Exploring Engineering, ISSN: 2278-3075, Volume 8 (11), September 2019, pp. 2056-2059
4. **N. C. Balaji**, Monto Mani, and B. V. Venkatarama Reddy, (2019), "Dynamic thermal performance of conventional and alternative building wall envelopes", Journal of Building Engineering, 21, pp. 373–395, <https://doi.org/10.1016/j.jobte.2018.11.002>.
5. Bhavya Shree M., and **N. C. Balaji**, (2018), "Thermo-structural Analysis of RC Columns", International Journal of Civil Engineering and Technology, 9(9), pp. 1451-1461.
6. **N. C. Balaji**, Monto Mani, and B. V. Venkatarama Reddy, (2017), "Thermal conductivity studies on cement-stabilised soil blocks", Proceedings of the Institution of Civil Engineers - Construction materials, 170(1), pp. 40 – 54. doi:10.1680/jcoma.15.00032 (**Impact Factor 1.676**)
7. M. C. Kumari, **N. C. Balaji**, and Monto Mani, (2015), "Understanding transitions in a rural Indian building typology in the context of well-being", Current Science, India, 10th November 2015, vol. 109, issue no. 09, pp. 1610 – 1621. (**Impact Factor 0.926**)
8. **N. C. Balaji** and Monto Mani, (2014), "Sustainability in Traditional Handlooms", Environmental Engineering Management Journal (EEMJ), Romania, February 2014, vol. 13, no. 2, pp. 323 – 331. (**Impact Factor 1.25**)

Peer-review Conference Papers:

1. K. M. Aishwarya, Nikitha V. Anand, and **N. C. Balaji**, (2023), "An experimental study on structural performance of reinforced concrete beams strengthened for combined flexure and shear by using NSM-GFRP strips", IOP Conference Series: Materials Science and Engineering, Volume 1282, 3rd International Conference on Sustainable Construction Technologies & Advancements in Civil Engineering. (ScTACE 2022) 15/12/2022 - 17/12/2022 Bhimavaram, India. IOP Conf. Ser.: Mater. Sci. Eng. 1282 012006 DOI 10.1088/1757-899X/1282/1/012006. (Published online: 15 November 2023) <https://iopscience.iop.org/issue/1757-899X/1282/1>
2. Aishwarya K. M., and **Balaji N. C.**, (2023), "Analysis and design of eccentrically loaded corner combined footing for rectangular columns", Published in AIP Conference Proceedings 2759, 010001 (2023); <https://doi.org/10.1063/5.0144289>
3. Rashmi M., Aishwarya K. M., Nikitha Anand V. and **Balaji N. C.**, (2023), "A review on shear strengthening of Reinforced Concrete beam using NSM-FRP technique", Published in AIP Conference Proceedings 2759, 010001 (2023); <https://doi.org/10.1063/5.0144288>
4. Y. Kusuma, T. Rashmi, V. Nikitha Anand, **N. C. Balaji**, (2022), "An experimental study on flexural performance of RC beams strengthened by NSM technique using GFRP strips for a resilient infrastructure system", Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2021.11.600>.
5. Ummaar Shariff F., Nikitha Anand V. and **Balaji N. C.**, (2020) "Flexural Strengthening of RC Beams using Near Surface Mounted - Glass Fiber Reinforced Polymer Strips", International Conference on Material Science, Smart Structures and Applications (ICMSS 2020)", organized

by Surya Engineering College, Erode, Tamil Nadu, India on held on 15th - 16th October 2020, Published in AIP Conference Proceedings 2327, 020014 (2021); <https://doi.org/10.1063/5.0039665>

6. Rashmi M., Nikitha Anand V. and **Balaji N. C.**, (2020) "Shear Strengthening of RC Beams using Near Surface Mounted Technique with Glass Fiber Reinforced Polymer", International Conference on Material Science, Smart Structures and Applications (ICMSS 2020)", organized by Surya Engineering College, Erode, Tamil Nadu, India on held on 15th - 16th October 2020, Published in AIP Conference Proceedings 2327, 020012 (2021); <https://doi.org/10.1063/5.0039664>
7. Gourav K., **Balaji N. C.**, Venkatarama Reddy B.V., Monto Mani, (2017) "Studies into structural and thermal properties of building envelope materials", Energy Procedia, 2017, vol. 122, pp. 104 – 108
8. Khadija K. Khanum, Abhishek Rao, **Balaji N. C.**, Monto Mani, Praveen C. Ramamurthy, (2016), "Performance evaluation for PV systems to synergistic influences of dust, wind and panel temperatures: Spectral insight", IEEE, ISBN: 978-1-5090-2724-8, pp. 1715 – 1718
9. **Balaji N. C.**, Monto Mani, and Venkatarama Reddy B. V., (2014), "Discerning heat transfer in building materials", Energy Procedia, 2014, vol. 54, pp. 654 – 668

International Conference Papers:

1. P S Lakshmi, N C **Balaji**, Muralidhar N, and S Naveen Kumar (2024), "A Study on Sugarcane Bagasse Ash as a Value-added Material in Masonary Units", Published in Proceedings of 3rd International Conference on Innovative Research and Development (ICIRD-2024) held on 08th – 11th November 2024, Shinawatra University, Thailand. (ISBN 978-93-90188-40-6) ESN Publications, Tamilnadu, India.
2. Hemanth Urs, Mahendra, Dhanush, Kumar and **Balaji N. C.**, (2024) "Assessing the quality of drinking water filtered through commercial filters and also designing suitable gravity water filters for residential usage", International Conference on Sustainable Infrastructure: Innovations, Opportunities & Challenges - 2024 (SIIOC-2024), Organized by Department of Civil Engineering, National Institute of Technology Karnataka Surathkal (NITS), India, which held on 30th April & 01st May 2024.
3. Kaveramma, Chandan, Dhananjay Murthy, Phom, and **Balaji N. C.**, (2024) "Evaluating the structural behaviour and suitability of the surface repair material used for repairing concrete structural elements", International Conference on Sustainable Infrastructure: Innovations, Opportunities & Challenges - 2024 (SIIOC-2024), Organized by Department of Civil Engineering, National Institute of Technology Karnataka Surathkal (NITS), India, which held on 30th April & 01st May 2024.
4. Fiza Naaz and **Balaji N. C.**, (2024) "Mitigating Footpath Degradation and Offering a Total Solution – A Proposal", International Conference on Sustainable Infrastructure: Innovations, Opportunities & Challenges - 2024 (SIIOC-2024), Organized by Department of Civil Engineering, National Institute of Technology Karnataka Surathkal (NITS), India, which held on 30th April & 01st May 2024.
5. Fiza Naaz and **Balaji N. C.**, (2024) "Ensuring safety in construction of concrete frames: Reviewing the codal provisions for erection", International Conference on Sustainable Infrastructure: Innovations, Opportunities & Challenges - 2024 (SIIOC-2024), Organized by Department of Civil Engineering, National Institute of Technology Karnataka Surathkal (NITS), India, which held on 30th April & 01st May 2024.
6. Soumay B Gouda, Fiza Naaz and **Balaji N. C.**, (2024) "Methodology for Shear and Flexural Strengthening of RC Beams with NSM Technique", International Conference on Sustainable Infrastructure: Innovations, Opportunities & Challenges - 2024 (SIIOC-2024), Organized by Department of Civil Engineering, National Institute of Technology Karnataka Surathkal (NITS), India, which held on 30th April & 01st May 2024.

7. Soumay B Gouda and **Balaji N. C.**, (2024) "Safe Passage Skywalk: Ensuring Secure Crossings for School Children and Local Communities Over National Highway – A Proposal", International Conference on Sustainable Infrastructure: Innovations, Opportunities & Challenges - 2024 (SIIOC-2024), Organized by Department of Civil Engineering, National Institute of Technology Karnataka Surathkal (NITS), India, which held on 30th April & 01st May 2024.
8. Soumay B Gouda and **Balaji N. C.**, (2024) "Enhancing Building Demolition Safety Code of Practice: Reconstructing the codal Provision of Demolition of Buildings", International Conference on Sustainable Infrastructure: Innovations, Opportunities & Challenges - 2024 (SIIOC-2024), Organized by Department of Civil Engineering, National Institute of Technology Karnataka Surathkal (NITS), India, which held on 30th April & 01st May 2024.
9. Swaroop T. M., **Balaji N. C.**, Arun Kumar N., & Naveen B. O.,(2023) "Assessment of Periphery Free-Standing Masonry Wall For Structural Safety And Integrity", International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development (IACESD-2023), Organized by Department of Civil Engineering, Jyothy Institute of Technology (JIT), Bengaluru, India, which held on 7th & 8th July 2023
10. Rohin Ashvij V. A., Girish H., and **Balaji N. C.**, (2023) "An experimental study on the structural performance of full scale RC beams strengthened for shear using NSM GFRP strips", International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development (IACESD-2023), Organized by Department of Civil Engineering, Jyothy Institute of Technology (JIT), Bengaluru, India, which held on 7th & 8th July 2023
11. Himarani C. K., Harish Gowda D. S., Keerthanaram A. R., Jashwanth Gowda M. V., and **Balaji N. C.**, (2023), "Thermal performance of residential buildings at different locations", at the International Conference on Sustainable Infrastructure: Innovations, Opportunities and Challenges (SIIOC 2023), held during 20 - 21 April 2023 at NITK, Surathkal.
12. Girish H., and **Balaji N. C.**, (2023), "The Failure Behaviour of Concrete Cubes in Compression", at the International Conference on Sustainable Infrastructure: Innovations, Opportunities and Challenges (SIIOC 2023), held during 20 - 21 April 2023 at NITK, Surathkal.
13. Rohin Ashvij V.A., and **Balaji N. C.**, (2023), "Analytical Study of Low-Speed Open Circuit Wind Tunnel Using ANSYS FLUENT", at the International Conference on Sustainable Infrastructure: Innovations, Opportunities and Challenges (SIIOC 2023), held during 20 - 21 April 2023 at NITK, Surathkal.
14. Aishwarya K. M., Nikitha Anand V. and **Balaji N. C.**, (2022), "An experimental study on structural performance of reinforced concrete beams strengthened for combined flexure and shear by using NSM-GFRP strips", 3rd International Conference on Sustainable Construction Technologies & Advancements In Civil Engineering (ScTACE 2022), organized by Department of Civil Engineering, Shri Vishnu Engineering College For Women, Bhimavaram, West Godavari, Andra Pradesh, which held on 115th to 17th December 2022. **[Best Paper Award]**
15. Aishwarya K. M., and **Balaji N. C.**, (2022), "Analysis and design of eccentrically loaded corner combined footing for rectangular columns", 1st International Conference on Advances Sustainable Construction Materials (ICASCM-2022), organized by Department of Civil Engineering, KL University, Koneru Lakshmaiah Education Foundation (KLEF), Guntur, Vijayawada, Andra Pradesh, in association with Indian Concrete Institute (ICI), which held on 18th -19th March 2022.
16. Rashmi M., Aishwarya K. M., Nikitha Anand V. and **Balaji N. C.**, (2022), "A review on shear strengthening of Reinforced Concrete beam using NSM-FRP technique", 1st International Conference on Advances Sustainable Construction Materials (ICASCM-2022), organized by Department of Civil Engineering, KL University, Koneru Lakshmaiah Education Foundation (KLEF), Guntur, Vijayawada, Andra Pradesh, in association with Indian Concrete Institute (ICI), which held on 18th -19th March 2022.
17. Abhishek K. V., **Balaji N. C.**, Rohith Jain, Chirdeep N. R., and Gourav K., (2021), "Comparative study of Gabion wall using experimental and analytical methods", 11th Online International Conference on "Civil Engineering Trends and Challenges for Sustainability (CTCS 2021)",

organized by NMAM Institute of Technology (NITTE), Nitte, Karnataka, India, India, which will be held on 19th – 20th November 2021.

18. Abhishek K. V., **Balaji N. C.**, Rohith Jain, Chirdeep N. R., and Gourav K., (2021), "*A Review on Behaviour of Gabion Boxes using Experimental and Analytical Methods*", 2nd International Conference on Sustainable Construction Technologies & Advancements In Civil Engineering (ScTACE 2021), organized by Department of Civil Engineering, Shri Vishnu Engineering College For Women, Bhimavaram, West Godavari, Andra Pradesh, which held on 14th to 16th October 2021. [**Best Paper Award**]
19. Rashmi T., Kusuma Y., Nikitha Anand V. and **Balaji N. C.**, (2021), "*Shear Strengthening of RC Beams by NSM Technique using GFRP Strips for Sustainable and Resilient Infrastructure*", 2nd International Conference on Sustainable Construction Technologies & Advancements In Civil Engineering (ScTACE 2021), organized by Department of Civil Engineering, Shri Vishnu Engineering College For Women, Bhimavaram, West Godavari, Andra Pradesh, which held on 14th to 16th October 2021. (<https://link.springer.com/book/9789811901881>)
20. Kusuma Y., Rashmi T., Nikitha Anand V. and **Balaji N. C.**, (2021), "*An Experimental Study on Flexural Performance of RC beams Strengthened by NSM Technique using GFRP Strips for A Resilient Infrastructure System*", 1st International E-Conference on Sustainable Approach for Resilient Infrastructure (IC-SAFRI 2021) is organized by Department of Civil Engineering, Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad, which held on 26th -27th June 2021.
21. Chirdeep N. R., Rohith Jain, Suresh G. S., and **Balaji N. C.**, (2020) "*Studies on the Behavior of Gabion Wall Subjected to Lateral Monotonic Loading*", 10th Online International Conference on "Civil Engineering Trends and Challenges for Sustainability (CTCS 2020)", organized by NMAM Institute of Technology (NITTE), Nitte, Karnataka, India, which held on 22nd – 23rd December 2020.
22. Ummar Shariff F., Nikitha Anand V. and **Balaji N. C.**, (2020) "*Flexural Strengthening of RC Beams using Near Surface Mounted - Glass Fiber Reinforced Polymer Strips*", International Conference on Material Science, Smart Structures and Applications (ICMSS 2020)", organized by Surya Engineering College, Erode, Tamil Nadu, India on held on 15th - 16th October 2020
23. Rashmi M., Nikitha Anand V. and **Balaji N. C.**, (2020) "*Shear Strengthening of RC Beams using Near Surface Mounted Technique with Glass Fiber Reinforced Polymer*", International Conference on Material Science, Smart Structures and Applications (ICMSS 2020)", organized by Surya Engineering College, Erode, Tamil Nadu, India on held on 15th - 16th October 2020.
24. **Balaji N. C.**, and Monto Mani, (2018), "*Error Analysis on Thermal Conductivity Measurements of Cement-Stabilized Soil Blocks*", In Proceedings of 2nd International Symposium on Earthen Structures (ISES 2018) conference on 22nd – 24th August 2018, held at JRD Tata Auditorium, NIAS, Indian Institute of Science (I.I.Sc), Bangalore, India.
25. Gourav K., **Balaji N. C.**, Venkatarama Reddy B.V., Monto Mani, (2017) "*Studies into structural and thermal properties of building envelope materials*", International conference on "Future buildings and districts – Energy efficiency from Nano to Urban scale (CISBAT 2017) on 6th – 8th September 2017, held at École polytechnique fédérale de Lausanne (EPFL), Lausanne, Switzerland.
26. **Balaji N. C.**, Monto Mani and Venkatarama Reddy B. V., (2016), "*Dynamic thermal performance of the conventional and alterative building envelope materials*", 4th International conference on Central Europe towards Sustainable Building 2016 (CESB 2016), Innovations for Sustainable Future, 22th – 24th June 2016, Prague, Czech Republic.
27. Monto Mani, Gayathri Aaditya, and **Balaji N. C.**, (2016), "*Appreciating performance of a BiPV lab in Bangalore (India)*", 32nd European PV Solar Energy Conference and Exhibition (EU PVSEC 2016), 20th – 24th June 2016, Munich, Germany.
28. Khadija K Khanum, Abhishek Rao, **Balaji N. C.**, Monto Mani, Praveen C Ramamurthy, (2016), "*Performance evaluation for PV systems to synergistic influences of dust, wind and panel*

temperatures: Spectral insight", The 43rd IEEE Photovoltaic Specialists Conference (PVSC 2016), 5th – 10th June 2016, Portland, Oregon, USA.

29. **Balaji N. C.**, Monto Mani and Venkatarama Reddy B. V., (2015), "*Effect of opaque building envelope material thermal properties on indoor thermal comfort*", In Proceedings of 14th International conference of the International Building Performance Simulation Association (IBPSA), 1st Building Simulation Conference (BS – 2015) on 7th Dec – 9th Dec 2015, held at Novotel hotel, HICC, Hyderabad, India.
30. Kumari M. C., **Balaji N. C.**, and Monto Mani, (2015), "*Transition studies in rural building typologies: A case-study*", In Proceedings of International conference on "Future buildings and districts – sustainability from Nano to Urban scale (CISBAT 2015) on 9th – 11th September 2015, held at École polytechnique fédérale de Lausanne (EPFL), Lausanne, Switzerland.
31. **Balaji N. C.**, Praseeda K. I., Monto Mani, and Venkatarama Reddy B. V., (2015), "*Influence of varying mix proportions on thermal performance of the soil-cement blocks*", in Proceedings of 2nd International conference of the International Building Performance Simulation Association (IBPSA) Italy conference, Building Simulation Application 2015 (BSA – 2015) on 4th Feb – 6th Feb 2015 held at Free University of Bozen - Bolzano, Italy.
32. Kumari M. C., **Balaji N. C.**, and Monto Mani, (2014), "*Well-being and sustainable design: A case study of building typology transition in a rural settlement in India*", Indo-Dutch International Conference on Design for Sustainable Well-being and Empowerment (DfWnE – 2014) on 12th – 14th June 2014, held at Indian Institute of Science, Bangalore, India.
33. **Balaji N. C.**, Monto Mani, and Venkatarama Reddy B. V., (2013), "*Discerning Heat Transfer in Building Materials*", In Proceedings of 4th International Conference on Advances in Energy Research – 2013 (ICEAR – 2013) on 10th – 12th December 2013, held at Indian Institute of Technology (IITB), Mumbai, India.
34. **Balaji N. C.**, Monto Mani, and Venkatarama Reddy B. V., (2013), "*Thermal Performance of the Building Walls*", in Proceedings of 1st International conference of the International Building Performance Simulation Association (IBPSA) Italy conference, Building Simulation Application 2013 (BSA – 2013) on 30th Jan – 1st Feb 2013 held at Free University of Bozen - Bolzano, Italy.
35. **Balaji N. C.**, and Monto Mani, (2010), "*Sustainability of Handloom Industry*", 3rd International Congress for Environmental Research (ICER – 2010) on 16th – 18th September 2010, held at The University of Mauritius, Reduit, Mauritius
36. **Balaji N. C.**, and Sarangapani G., (2007), "*Load Carrying Capacity of Brick Masonry Dome in Mud Mortar*", In Proceedings of 1st International Symposium on Earthen Structures (ISES – 2007) conference on 22nd – 24th August 2007, held at Indian Institute of Science (I.I.Sc), Bangalore, India.

National Conference Papers:

1. Fiza Naaz, Soumya B. Gouda, and **N. C. Balaji.**, (2023), "*Millet Storage Structures: A Structural Design of Bunker Bin*", Proceedings of National Conference on "Millet Confluence 2023 – An Extravaganza of Ideas and Innovations", conducted by Padmashree Institute of Management and Sciences in Collaborations with KSCST, Bangalore, from 14th to 16th December 2023.
2. Dhanush S.R., Chetahn V., Bhuvana C., Bheemaraya, Nikitha V. Anand, and **Balaji N. C.**, (2021), "*Evaluation of Characteristics of Manufactured Sand (M Sand) Quarried from Different Geological Locations Around Mysuru District*", Proceedings of National Conference on Innovations & Recent Trends in Civil Engineering (NCIRCE-2021) 9th and 10th June 2021, Sri Venkateshwara College of Engineering, Bengaluru, India, pp. 209-212
3. Adithya R., Manvitha A. Urs, Kavya K.N., Abhishek V. Gowda, Sri Rashmi S., and **Balaji N. C.**, (2021), "*Experimental study on Compressive Strength and Healing Behaviour of Bio-Concrete*", Proceedings of National Conference on Innovations & Recent Trends in Civil Engineering (NCIRCE-2021) 9th and 10th June 2021, Sri Venkateshwara College of Engineering, Bengaluru, India, pp. 53-56.

4. Pavan Kumar G. R., Bharath R., Akshay R. Das, Lakshmi Vishwakarma, Nikitha V. Anand, & **Balaji N. C.**, (2021), "Study of Strength and Water Absorption Characteristics of bamboo used for Reinforced Concrete Element", Proceedings of National Conference on Innovations & Recent Trends in Civil Engineering (NCIRCE-2021) 9th and 10th June 2021, Sri Venkateshwara College of Engineering, Bengaluru, India, pp. 28-33.
5. Afifa Mariyam N, Kallesha B. M, Avinash K, Mahmadajafar Savanur and **Balaji N. C.**, (2020), "Structural Performance of Concealed Beam: Review Article", In Proceedings of Global Conference on ADVANCED SMART AND SUSTAINABLE TECHNOLOGIES IN ENGINEERING (GCASSTE 2020) on 30th & 31st January 2020, Held at Manglore Institute of Technology and Engineering (MITE), Moodbidri, Mangalore, India
6. Kumbla Anupa Nayak, Kanchana B. N., K. T. Jyothsna, Kiran Kumar Patil and **Balaji N. C.**, (2020), "Structural Behavior of Floating Column", In Proceedings of Global Conference on ADVANCED SMART AND SUSTAINABLE TECHNOLOGIES IN ENGINEERING (GCASSTE 2020) on 30th & 31st January 2020, Held at Manglore Institute of Technology and Engineering (MITE), Moodbidri, Mangalore, India
7. Varchas Koushik, and **Balaji N. C.**, (2019), "Study of reinforced Concrete Jacketed Columns", National Seminar for Research Scholars-2019, held during 25-26, April 2019 at Department of Civil Engineering, AMC Engineering College, Bengaluru.
8. Rajani A., Basavaraj K.P., Gopika Dinesh, Darshan N., Nikitha Anand V., and **Balaji N.C.**, (2019), "Comparative Study of Reinforced Concrete and Prestressed Concrete Flexural Elements: Sectional and Structural Properties", In Proceedings of National Conference on Advancement and Innovations in Civil Engineering (NCAICE-2019) Conference on 16th May 2019, held at PES Institute of Technology and management, Shivamogga, India. (ISBN 978-81-926416-6-9)

Chapter in edited books:

1. **Balaji, N.C.**, Kiran Kumar, S., Hemanth Urs, R., Mahendra, N., Dhanush, L. (2025). Assessing the Quality of Drinking Water Filtered Through Commercial Filters and also Designing Suitable Gravity Water Filters for Residential Usage. In: Kolathayar, S., Hegde, A., Shivapur, A., Mulangi, R.H. (eds) Engineering Soil, Water and Environment for Sustainable Infrastructure. SIIOC 2024. Lecture Notes in Civil Engineering, vol 661. Springer, Singapore. https://doi.org/10.1007/978-981-96-7552-4_2 (Published online: 02 January 2026)
2. Himarani, C.K., Harish Gowda, D.S., Keerthanaram, A.R., Jashwanth Gowda, M.V., **Balaji, N.C.** (2024). Thermal Performance of Residential Buildings at Different Locations. In: Jayalekshmi, B.R., Rao, K.S.N., Pavan, G.S. (eds) Technologies for Sustainable Buildings and Infrastructure. SIIOC 2023. Lecture Notes in Civil Engineering, vol 528. pp 947–958, Springer, Singapore. https://doi.org/10.1007/978-981-97-4844-0_73 (Published online: 20 September 2024)
3. Girish, H., **Balaji, N.C.** (2024). The Failure Behaviour of Concrete Cubes in Compression. In: Jayalekshmi, B.R., Rao, K.S.N., Pavan, G.S. (eds) Technologies for Sustainable Buildings and Infrastructure. SIIOC 2023. Lecture Notes in Civil Engineering, vol 528. pp 151–162, Springer, Singapore. https://doi.org/10.1007/978-981-97-4844-0_13 (Published online: 20 September 2024)
4. Rohin Ashvij, V.A., **Balaji, N.C.** (2024). Analytical Study of Low-Speed Open Circuit Wind Tunnel Using Ansys Fluent. In: Jayalekshmi, B.R., Rao, K.S.N., Pavan, G.S. (eds) Technologies for Sustainable Buildings and Infrastructure. SIIOC 2023. Lecture Notes in Civil Engineering, vol 528. pp 139–150, Springer, Singapore. https://doi.org/10.1007/978-981-97-4844-0_12 (Published online: 20 September 2024)
5. Swaroop, T.M., **Balaji, N.C.**, Naveen, B.O., Arun Kumar, N. (2024). Assessment of Periphery Free-Standing Masonry Wall for Structural Safety and Integrity. In: Sreekeasha, K.S., Kolathayar, S., Vinod Chandra Menon, N. (eds) Recent Advances in Structural Engineering. IACEDS 2023. Lecture Notes in Civil Engineering, vol 455. Springer, Singapore. https://doi.org/10.1007/978-981-99-9502-8_9

6. Rohin Ashvij, V.A., Girish, H., **Balaji, N.C.** (2024). *An Experimental Study on the Structural Performance of Full Scale RC Beams Strengthened for Shear Using NSM GFRP Strips*. In: Sreekechava, K.S., Kolathayar, S., Vinod Chandra Menon, N. (eds) Recent Advances in Structural Engineering. IACESD 2023. Lecture Notes in Civil Engineering, vol 455. Springer, Singapore. https://doi.org/10.1007/978-981-99-9502-8_42
7. Rashmi T., Kusuma Y., Nikitha Anand V. and **Balaji N. C.**, (2022), “*Shear Strengthening of RC Beams by NSM Technique using GFRP Strips for Sustainable and Resilient Infrastructure*”, In: Kumar, P.G., Subramaniam, K.V.L., Santhakumar, S.M., Satyam D., N. (eds) Recent Advances in Civil Engineering. Lecture Notes in Civil Engineering, Vol 233. Springer, Singapore, https://doi.org/10.1007/978-981-19-0189-8_2.
8. Chirdeep N.R., **Balaji N.C.**, Jain R., Suresh G.S. (2022), “*Studies on the Behavior of Gabion Wall Subjected to Lateral Monotonic Loading*”. In: Nandagiri L., Narasimhan M.C., Marathe S., Dinesh S. (eds.) Sustainability Trends and Challenges in Civil Engineering. Lecture Notes in Civil Engineering, Vol. 162. Springer, Singapore, https://doi.org/10.1007/978-981-16-2826-9_27.
9. **Balaji, N. C.** and Mani, M. (2015): *Error Analysis on Thermal Conductivity Measurements of Cement-stabilized Soil Blocks*. In B. V. V. Reddy et al. (eds.), Earthen Dwellings and Structures, Springer Transactions in Civil and Environmental Engineering, Springer Nature Singapore Pte Ltd. 2019, https://doi.org/10.1007/978-981-13-5883-8_29
10. Kumari, M. C., **Balaji, N. C.** and Mani, M. (2015): *Well-being and sustainable design: A case study of building typology transition in a rural settlement in India*. In Mani, M. and Kandachar, P. (Eds): Design for Sustainable Well-being and Empowerment: Selected Papers, IISc Press and TU Delft, 207–226. [ISBN: 978-81-925707-1-6 and 978-94-6186-345-4]

Reports /monographs:

- M.Sc., (Engg.) By Research (Structures) Thesis: “**Behaviour of Brick Masonry Domes**”. Dept. of Civil Engineering, The National Institute of Engineering, Mysore, India, 2008.
- Ph.D. Thesis: “**Studies into thermal transmittance of conventional and alternative building materials and associated building thermal performance**”. PhD Thesis, Center for Sustainable Technologies, Indian Institute of Science, Bangalore, India, 2017.
- Mani, M., Venkatarama Reddy, B.V., Somashekar, H.I., Kumari, M.C., and **Balaji, N.C.**, (2014) “**Assessing resource and energy demand attributed to modern urbanizing transitions in rural dwellings**”, CiSTUP, Indian Institute of Science, Bangalore.

Other achievements:

Professional experience:

- Feb 2025 – Till date: **Head of the Department (HoD), Dept. of Civil Engg., The National Institute of Engineering, Mysore.**
- Feb 2023 – Till date: **Associate Dean R&D, Center for Research and Development (NIE-CRD), The National Institute of Engineering, Mysore.**
- Feb 2022 – Feb 2023: NIE-CRD Coordinator, Center for Research and Development (NIE-CRD), The National Institute of Engineering, Mysore.
- Mar 2020 – Till date: **Associate Professor, Dept. of Civil Engg., The National Institute of Engineering, Mysore.**
- Dec 2016 – Mar 2020: Assistant Professor, Dept. of Civil Engg., The National Institute of Engineering, Mysore.
- Aug 2015 – Nov 2016: Research Associate at Interdisciplinary Center for Energy Research (ICER) at IISc, Bangalore

- (Worked on “Impact of dust and PV temperature on PV system (performance) efficiency in tropical regions”)
- Aug 2009 – Jun 2015: Doctoral student (PhD) at Centre for Sustainable Technologies (CST), IISc, Bangalore
 - Aug 2008 – Aug 2009: Design Engineer at Civil-Aid Techno-Clinic Pvt. Ltd, Bangalore
(Work involves assessing fire damaged structures, Investigation of structural distress and structural rehabilitation, Assessment of old bridges, Structural feasibility studies for MICO-BOSCH; INFOSYS; Wienerberger brick manufacturing unit, Monsanto research centre, IBM India Pvt. Ltd, Reserve Bank of India (Blr); State Bank of India, (Blr), Karnataka Housing Board, BWSSB, and BBMP for existing building. Assessment of fire damaged structures for TCE & TATA BP Solar Pvt. Ltd., Load testing evaluation for new bridges on NH-45 for Navayug Construction Company, and few other relevant works).
 - Jul 2005 – Aug 2008: Design Engineer (Department of Civil Engg.) at NIE, Mysore
(Worked as assistant structural design engineer for NIE Structural team, involved in Designing of NIE Diamond Jubilee Sports Complex (design of Steel Space Truss and RC Shell structure), Structural steel design of vegetable market building at Vijayanagar for MUDA, Mysore under CRC Consultancy)
 - May 2005 – Jun 2005: Quality Control Engineer at Tor-Steel Research foundation in India, Bangalore
(QC Engg. for “Tungba bhadra left bank canal” project at Bellary, involved in Concrete quality control, Inner soil-strengthening of canal embankment and NDT for concrete quality)

Patents:

- Patent filed on the “**Double Guarded Hot Box**”. Inventors (or Authors) Prof. Monto Mani, Prof. B. V. Venkatarama Reddy, Prof. G. S. V. L. Narasimham, K. I. Praseeda, N. C. Balaji, and Gayathri Aadithya, (Patent filed: 30th May 2011, Patent Granted : 30th March 2021, 1826/CHE/2011, Patent No. 363524)
- Indian Patent Published for the invention of the “**Method of Producing Masonry Units Using Sugarcane Bagasse Ash as a Value-Added Material**”. Inventors (or Authors): Mrs. Lakshmi P. S.; Dr. Jayashankar Babu B. S.; **Dr. N. C. Balaji**; Naveen Kumar S.; Dr. Chowdegowda H. C.; Dr. S. Poornaprajna (Patent filed: 19th April 2023, Patent Published: 26th May 2023, Application No. 202341028533 A)

Projects:

- UGC-UIKERI Sponsored Project “Developing earth based building products utilising solid wastes”, 2017
Investigator(s): Prof. Pete Walker, Prof. B. V. Venkatarama Reddy
UK Lead Applicant: Prof. Pete Walker
India Lead Applicant: Prof. B. V. Venkatarama Reddy (IISc, India)
UK Group: Prof. Andrew Heath, Dr. Dan Maskell (University of Bath, UK)
India Group: Prof. Monto Mani, Dr. K. S. Nanjunda Rao (IISc, India)
Other Partners: Dr. K. Gourav, Dr. N. C. Balaji (NIE, India) and Prof. Jean-Claude Morel (Coventry University, UK) [(£ 125,879.03) (Rs. 1,04,89,169/-)]
- **Principal Investigator:** Dr. N. Suresh and **Co-Investigator:** Dr. N. C. Balaji for BRNS Sponsored Research Project titled “Software tool for Fire Safety Audit to Quantify the Fire Safety Index (FSI)”

of any Building”, Project duration 2 yrs (2018-2020), DAE-BRNS - Board of Research in Nuclear Sciences. (Rs. 24,80,450/-)

Recognition at Bureau of Indian Standards (BIS), New Delhi

- ***CED 45 - Safety in Construction Sectional Committee*** - Principal Member, (Centre for Workplace Safety and Health (CWSH), The National Institute of Engineering, Mysuru).
 - CED 45 - Working Group Committee Member for "*SP70 Handbook on Construction Safety Practice*"
- ***EED 07 (Formerly CED 58) - Sustainability in Building Construction Sectional Committee*** - Principal Member, The National Institute of Engineering, Mysuru.
 - EED 07 – Panel 01 - Climatic Response (Thermal Comfort /Ventilation)
 - EED 07 – Panel 02 - Green Office: Requirements and Guidelines
 - EED 07 – Panel 03 - Structural and Durability (built environment)
 - EED 07 – Panel 04 - Fires/safety/toxicity
 - EED 07 – Panel 05 - Climatic Response (Acoustics/Illumination)

Recognition at Editorial Board Member

- ***Springer Nature Journal*** – Editorial Board Member for Civil Engineering Domain

Consultancy Services through Center for Research & Consultancy, Department of Civil Engineering, NIE, Mysuru: (Listed only Major Consultancy)

- Non-Destructive Testing service for BRBNMPL (RBI), Mysuru
- Structural design for South Western Railways (SWR), Mysuru & Hassan
- Structural design for KRIDL, Kollegal
- Structural design for PRE SD, Dugahalli, Mysuru
- Structural Design of Coaching Depot for SWR, Mysuru
- Structural Design of Switch Room for SWR, Mysuru
- Feasibility studies for Holiday Home at Medikere for SWR, Mysuru
- NDT service for PJB Engineers
- Feasibility studies for MP&VL, Mysuru
- Structural design of Govt School for RDPR, Doddekoppalu, K.R.Nagar
- FE Analysis & Design of Pit Line No 2 for SWR, Mysuru
- Repair and Retrofitting of R.C. Retaining Wall at United Brewery Limited, Orissa
- Technical report for Advisory committee of GST Commissioner, Mysuru
- Design Proof Checking for PHC constructions for Karnataka Health System Development & Reform Project (KHSDRP)
- Feasibility studies of heritage structures at Central Workshop, SWR, Mysuru
- Proof checking of Analysis and design of Lifting Tackle at Central Workshop, SWR, Mysuru
- Design Proof Checking of Lift irrigation Structural Element for Department of Minor Irrigation and Ground Water Development (MI & GWDD), Mangaluru
- Design Proof Checking of Lift irrigation Structural Element for Department of Minor Irrigation and Ground Water Development (MI & GWDD), Mandhya
- Feasibility and re-design Wheel Shop Gantry Girder Column of CWM, SWR, Mysuru
- Gantry Girder Design Proof Check for CWM, SWR, Mysuru
- Design Proof Checking of Ayush Buildings at Mysuru & T.N.Pura
- Design of Watch Tower at Mysuru Airport, AAI, Mysuru
- Design of Slab Culverts & Box Culvert, for MUDA, Mysuru
- Design Proof checking of Station Building foundation design for SWR at Arsikere

- Design Proof checking of SSE-S, SSE-T, & ADSTE buildings for SWR at Hasssan, Puttur, Kadur, Sakaleshpura.
- Assessing the strength capacity of the exiting OHT's at Kollegal & Hanur Taluk for Jal Jeevan Mission
- Design Proof checking of PEB structures at CSIR-CFTRI, Mysuru
- Technical Consultant to MYMUL, Mysuru
- Structural designer consultancy service for Mysuru Airport , AAI, Mysuru

Students Project Guided (PhD, PG, & UG) Program *(Details enclosed in Annexure)*

PhD Completed	: 1 Student (Awarded in Aug 2023)
PhD Ongoing	: 4 Student
PhD (QIP)	: 2 Students (Contact Program)
PG (Structures) Completed	: 21 Students
UG (Civil Engg.) Completed	: 19 Batches
Funded & Best Projects	: 12 Projects (UG & PG)

Invited Talks:

- Invited talk on '**Green Rating Systems in Buildings**' at 12th Energy Efficient Buildings Workshop Series on "**Low Carbon Materials and Building Systems**" on 29th July 2017 held at Centre for Sustainable Technologies (CST), Indian Institute of Science (IISc), Bangalore, India.
- Invited talk on "**Solar Passive Architecture & Building Simulation Techniques**" at 13th Energy Efficient Buildings Workshop Series on "**Low Carbon Materials and Building Systems**" on 19th to 24th February 2018 held at Centre for Sustainable Technologies, Indian Institute of Science (IISc), Bangalore, India.
- Invited talk on "**Energy Assessment in Buildings and Green Rating Systems in Buildings**" at 14th Energy Efficient Buildings Workshop Series on "**Low Carbon Materials and Building Systems**" on 21st to 26th January 2019 held at Centre for Sustainable Technologies (formerly ASTRA) , Indian Institute of Science (IISc), Bangalore, India.
- Resources person for Two-Week training program on "**Forest Department Staff Training**", for Karnataka Forest Department, which held from 8th to 20th July 2019 at Forest Department Training Centre, Yelwala, Mysuru *(Topics delivered are "Mud: Different types of mud and its uses A brief about green building techniques; Bricks: Manufacture of bricks, classification, characteristics of good bricks, testing of bricks, uses of bricks; Hollow Bricks: Sizes of hollow bricks, uses in construction of buildings, adobe ,light weight brick; & Materials used alternate to wood")*
- Invited talk on "**Green Rating Systems & Examples, Energy Assessment in Buildings**" at 15th Energy Efficient Buildings Workshop Series on "**Low Carbon Materials and Building Systems**" on 5th to 10th August 2019 held at Centre for Sustainable Technologies (formerly ASTRA), Indian Institute of Science (IISc), Bangalore, India.
- Invited talk on "**Construction Measurement and Calculation – Volumes of Cube, Cuboids and Cylinder**" for "Bare Foot Technician" under MGNREGA Training Program, which held on 15th to 29th March 2021, Organized by the Abdul Nazir Sab State Institute Of Rural Development (ANSSIRD), Administrative Training Institute Campus, Mysuru, Karnataka
- Expert talk on "**Thermal Performance of Low Carbon Building Materials & Sustainable building Technologies**", in One-week Online Short Term Training Program (STTP) on “Novel Advances in Ingredients of Sustainable Construction Materials” which held from 1st June to 5th June 2021, organized by Department of Applied Mechanics of L.D.College of Engineering, Ahmedabad, India.
- Invited talk on "**Thermal Performance Assessment in Buildings and Materials**" at “National workshop on low-carbon construction materials and “green” building architecture” on 22nd to 24th

November 2022 held at, CEB/rammed earth building at Indian Institute of Science, IISc Challakere campus, Chitradurga. [Coordinators: Dr. Souradeep Gupta, (Asst. Professor, IISc); Professor Monto Mani (IISc); (Retd.) Professor B.V. Venkatrama Reddy (IISc); & Dr. S.N. Ullas]

- Invited talk on “**Thermal Performance Assessment of Building Materials and Building Thermal Comfort**”, One Week National Workshop on "Facets of Sustainable Urban Infrastructure (FSUI)", Organized by Department of Construction Technology & Management, JSS Mahavidyapeeta, JSS Science and Technology University, Sri Jayachamarajendra College of Engineering (SJCE), Mysuru, on occasion of Diamond Jubilee Year 1963-2023. During 9th – 13th Jan 2023.
- Invited talk on "**Research Insights into Structural Engineering**", One-week Faculty Development Program (FDP) on "Research Insights in Civil Engineering (RICE-2023)" which held from 24th July to 28th July 2023, organized by Department of Civil Engineering, The National Institute of Engineering (NIE), Mysuru, India.
- Resources person for 45days training program for “**Newly appointed Assistant/Junior Engineers in Karnataka Rural Infrastructure Development Limited (KRIDL)**”, for State Institute for Urban Development (SIUD), which held from 20th Nov 2023 to 3rd Jan 2024, organized by SIUD, Administration Training Institute (ATI) Campus, Mysuru, India (*Topics delivered are: Alternative roof and floors (filler block; domes, vaults, concrete floor); Thermal performance in buildings; Earthquake resistance structures; & Field Visit to Construction sites*)

Organized - Training Programme:

- One-day Software Training programme on “**STAAD Pro.V8i Software**”, Sponsored by TEQIP-III and Organized by Department of Civil Engineering, The National Institute of Engineering, Mysuru, held during 22nd March 2018. [Coordinator: N.C.Balaji]
- One-day Software Training programme on “**TerrSet – Geospatial Monitoring & Modeling System**”, Organized by Department of Civil Engineering, The National Institute of Engineering, Mysuru, held during 14th May 2018. [Coordinator: M. S. Ganesh Prasad & N. C. Balaji]
- One-day Student Training programme on “**BIM for Infrastructure**”, Organized by Department of Civil Engineering, The National Institute of Engineering, Mysuru, held during 25th August 2018, as a Pre-Aakar 2018 event. [Coordinators: N. C. Balaji & Nikitha V. Anand]
- One-day Software Training programme on “**ATENA–Advanced Tool for Engineering Nonlinear Analysis**”, Organized by Department of Civil Engineering, The National Institute of Engineering, Mysuru, held during 18th September 2018. [Coordinators: Dr. K. Gourav & Dr. N. C. Balaji] - Trainer: Dr. Jan Cervenka, Cervenka Consulting s.r.o, Prague, Czech Republic.
- Two-day Workshop on “**Engineering Faculty - You Can Do Research, Learn How?**”, Organized by NIE-CRD under the Technical Education Quality Improvement Programme (TEQIP-III), The National Institute of Engineering, Mysuru, held during 22nd & 23rd Feb 2019. [Coordinators: Dr. Suresha B., Dr. Nithin K.S., Dr. N. C. Balaji & Dr. Pradeepa H.]

Reviewer for Peer-Review Journals:

- Archives of Civil and Mechanical Engineering (Elsevier) – (Q1, SCI, IF:4.369)
- Ain Shams Engineering Journal (Elsevier) – (Q1, SCI, IF: 6)
- Clean Technologies & Environmental Policy (Springer) – (Q2, SCI, IF:3.636)
- Case Studies in Construction Materials (Elsevier) – (Q1, SCI, IF:4.30)
- Construction & Building Materials (Elsevier) – (Q1, SCI, IF: 4.419)
- Journal of Building Engineering (Elsevier) – (Q1, SCI, IF:5.32)
- Results in Engineering (Elsevier) – (Q1, SCI, IF:-)
- World Development Sustainability (Elsevier) - (Q1)
- Journal of The Institution of Engineers (India): Series A (Springer) – (Q2, SCI)
- Environmental Science and Pollution Research (Springer) – (Q1, SCI, IF:4.306)
- Environment, Development and Sustainability (Springer) - (Q1, SCI, IF:4.9)

- International Journal of Civil Engineering (Springer) - (Q2, SCI, IF:2.20)
- Buildings (MDPI) - (Q1, SCI, WoS, IF:2.648)
- Mathematics (MDPI) – (Q1, SCI, WoS, IF:2.258)
- Sustainability (MDPI) – (Q1, SCI, WoS, IF:3.251)
- Energies (MDPI) – (Q1, SCI, WoS, IF:3.004)
- Applied Sciences (MDPI) – (Q1, SCI, WoS, IF:2.838)
- Forests (MDPI) - (Q1, SCI, WoS, IF: 3.282)
- Atmosphere (MDPI) - (Q1, SCI, WoS, IF:2.397)
- International Journal of Environmental Research and Public Health (MDPI) - (Q1, SCI, WoS, IF:4.614)
- Journal of Engineering (Hindawi) (Q1, SCI, WoS, IF:--)
- Materials Today: Proceedings (Elsevier)
- Academia Letters
- Journal of Foods and Raw Materials (Kemerovo State University) – (Q3, WoS)
- Journal of Advanced Research in Fluid Mechanics and Thermal Sciences (Akademia Baru) – (Q4)
- Journal of Biostatistics and Biometric Applications – (Q4, IF:2.20)
- International Journal of Architecture and Urban Planning (IJAUP) (Iran University of Science & Technology)

Reviewer for International Conferences:

- Building Simulation 2019 (BS 2019), IBPSA, Rome, Italy
- Building Simulation 2021 (BS 2021), IBPSA, Bruges, Belgium
- Global Conference on Advanced Smart and Sustainable Technologies in Engineering (GCASSTE 2020), MITE, India
- International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS 2019), NITTE, India
- International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS 2020), NITTE, India
- International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS 2021), NITTE, India
- International Conference on Green Energy, Environment Engineering & Sustainable Technologies 2023 (ICGEST 2023), KLS Gogte Institute of Technology, India
- International Conference on Sustainable Infrastructure: Innovations, Opportunities and Challenges-2023 (SIIOC-2023), NITKS, India
- International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development (IACESD-2023), Jyothy Institute of Technology, Bangalore
- International Conference on Artificial Intelligence Summit - Towards Smart Sustainable Society 2023, The National Institute of Engineering, (NIE), Mysuru
- International Conference on Sustainable Infrastructure: Innovations, Opportunities and Challenges-2024 (SIIOC-2024), NITKS, India

Awards and grants:

- ***GARP - ITP International travel funds*** from Indian Institute of Science (IISc) for attending 1st IBPSA Italy conference on Building Simulation Application 2015 (BSA – 2015) held at Free University of Bozen – Bolzano, Bolzano, Italy, on 4th Feb – 6th Feb 2015.
- ***International Travel Funding by Centre for Sponsored Schemes and Project (CSSP)***, and Center for Sustainable Technologies (CST), Indian Institute of Science (IISc) funded to attend International Conference on "Future Buildings and Districts – Sustainability from Nano to Urban

Scale", CISBAT 2015, held at Ecole Polytechnique Fédérale in Lausanne (EPFL), Switzerland on 9th -11th September 2015.

- **MHRD Fellowship**: Recipient of graduate research scholar fellowship from Ministry of Human Resource and Development (MHRD), Govt. of India for pursuing Ph.D., (from August 2009 – July 2014)
- **Outstanding Reviewer-2016** for Clean Technologies & Environmental Policy (CTEP) (Springer Journal)
- **Best Conference Paper Award** at 2nd International Conference on Sustainable Construction Technologies & Advancements In Civil Engineering (ScTACE 2021), held at Shri Vishnu Engineering College For Women, Bhimavaram, West Godavari, Andra Pradesh.
- **NPTEL Motivated Learners** Jan-Apr 2022.
- **NPTEL Believers** Jan-Apr 2022.
- **NPTEL Evangelist** Jul-Dec 2022 (Web link)
- **Best Conference Paper Award** at 3rd International Conference on Sustainable Construction Technologies & Advancements In Civil Engineering (ScTACE 2022), held at Shri Vishnu Engineering College For Women, Bhimavaram, West Godavari, Andra Pradesh.
- **Top Performing Mentor, NPTEL** Online Certification Course in "Ethics in Engineering Practice", Jul-Dec 2022.
- **Top Performing Mentor, NPTEL** Online Certification Course in "Principles of Management", Jul-Dec 2022.
- **NPTEL Believers** Jan-Apr 2023
- **NPTEL Discipline Star** Jan-Apr 2023
- **Best Technical Paper Award** at International Conference on Sustainable Infrastructure: Innovations, Opportunities and Challenges (SIIOC 2023), held during 20 - 21 April 2023 at NITK, Surathkal.
- **NPTEL Believers** Jul-Dec 2023
- **NPTEL Motivated Learners** Jan-Apr 2024
- **NPTEL Believers** Jan-Apr 2024
- **NPTEL Discipline Star** Jan-Apr 2024

Certifications:

- **GRIHA Evaluator for Green building energy analyst**, certified by “GRIHA: Green Rating for Integrated Habitat Assessment”, GRIHA Council (Formerly ADaRSH), New Delhi, India.
- **Autodesk Building Performance Analysis Certificate**, Certified by Autodesk.
- SWAYAM-NPTEL Domain Certification in "**Faculty Domain - Advanced**" April 2023.

Professional Affiliations / Membership of Professional Bodies

- Life Member of **Institute for Steel Development and Growth** (INSDAG), Kolkata, India
- Life Member of **The Indian Society of Earthquake Technology** (LM ISET), IIT Roorkee, India
- Life Member of **Indian Concrete Institute** (ICI), Bengaluru Chapter, India
- Life Member of **Indian Geotechnical Society** (IGS), New Delhi [Executive Committee Members, Mysuru Chapter (50th Chapter)]
- Personal Member of **The International Association for Automation and Robotics in Construction** (IAARC), University of Oulu, Oulu, Finland.
- Life Member of **Solar Energy Society of India** (SESI), New Delhi, India
- Member of **Water Supply and Sanitation Collaborative Council** (WSSCC), United Nations membership organization, Geneva, Switzerland.

- Associate Member of *Institute of Engineers* (AMIE), The Institute of Engineers, Mysore Chapter, India.
- Life Member of *Indian Society for Heat and Mass Transfer* (ISHMT), IITM, Chennai, India
- Member of *World Society of Sustainable Energy Technologies* (WSSET), University of Nottingham, Nottingham, UK
- Member of *Society of Building Science Educators* (SBSE), USA
- Member of *International Association of Engineers* (IAENG), Hong Kong
- Affiliate Member of *American Society of Civil Engineers* (Aff. M. ASCE), Reston, Virginia (VA), USA
- Member of *American Society of Heating, Refrigerating, and Air-Conditioning Engineers* (ASHRAE), India Chapter, USA
- Associate Member of *Indian Society of Heating, Refrigerating, and Air-Conditioning Engineers* (ISHRAE), Bangalore Chapter, India
- Life Member of *Association of Consulting Civil Engineers* (ACCE), Mysore Chapter, Mysore, India
- Member of *International Society for Multi-Criteria and Multi-Decision* (MCMD), Middle East Technical University, Ankara, Turkey
- Member of *International Building Performance Simulation Association – India* (IBPSA-India), India
- Life Member of *Youth Hostels Association of India* (YHAI), New Delhi, India

Activities Involved at IISc:

- Involved in developing testing facilities “*Double guarded hot-box test facility*” and “*Thermal conductivity testing laboratory*” for testing building material and envelopes at Centre of Sustainable Technologies at IISc, Bangalore, India (during 2009 – 2016).
- *Student Organization Committee Member*, for Indo-Dutch International Conference 2014 on "Design for Sustainable Well-being and Empowerment", held on 12-14 June 2014, at Indian Institute of Science (I.I.Sc), Bangalore, India.

Administrative responsibilities in NIE Foundation, Mysuru:

NIE Group of Institutions Structural Consultant (Structural Designs, Proof Check & NDT) (Nov 2021 to Till date) – Assignments completed – (1) Design of NIE North Campus Gymnasium & Canteen building in Steel Structure, (2) Structural Design of NIE-FGC Administrative Building block in RC Structure.

Administrative responsibilities within NIE, Mysuru:

- *Planning & Infrastructure Development Committee Member (PIDC) (Aug 2024 – till date)*
- *NIE Alumni Association (NIEAA) Treasure (Feb 2024 to Till date)*
- *Special Chief Superintendent, M.Tech - 1st Sem, Semester End Examination, NIE during 3rd to 19th June 2024 (June 2024)*
- *Member Secretary, College Internal Complaints Committee (CICC), NIE, Mysuru (Apr 2024 - till date)*
- *7th Academic Council Member, NIE (9th Nov 2022 – 15th June 2025)*
- *KSCST SPP Coordinator* Representing NIE, Mysuru (August 2020 - till date)
- *NIE-IPR Cell Committee Member* (Mar 2022 - till date)
- *NISP Committee Member* (Mar 2022 - till date)
- *Coordinator for ICT Academy* Centre of Excellence for Design Powered by AUTODESK (Sept 2020 - till date)

- NIE 10th Graduation Day, **Stage Committee Chairman** (Jan 2021)
- NIE 11th Graduation Day, **Stage Committee Chairman** (Mar 2022)
- **NIE Library Committee Chairman** (May 2020 - Feb 2022)
- **UG Computer-Aided Design (CAD) Laboratory, Officer In-charge**, from 14th Feb 2017 to till Date, at Dept. of Civil Engg. (Achievements: Procurement of STAAD Pro v8i of Rs.15 lakhs in Sept 2017, & i7, 6th Gen Desktops of Rs.15 lakhs in Nov 2018)
- **PG Structural Engineering Laboratory, Founding member, Officer In-charge**, from 1th Aug 2018 to till Date, at Dept. of Civil Engg.
- **PG Computational Laboratory, Founding member, Officer In-charge**, from 1th Aug 2020 to till Date, at Dept. of Civil Engg.
- **Post-Graduate Coordinator for M.Tech. (Structural Engineering)** from 1st Dec 2017 to Nov 2022, at Dept. of Civil Engg.
- **NBA Coordinator for M.Tech. (Structural Engineering)** from 1st Dec 2017 to Nov 2022, at Dept. of Civil Engg.
- **NIE - Centre for Research & Development, Coordinator** from 1st Oct 2018 to 7th Feb 2022.
- **TEQIP-III Coordinator, Department of Civil Engineering** from 1st Oct 2018 to 1st Nov 2020.
- **Flying-Squad**, from August 2017 to August 2018.

Academic Achievements within NIE, Mysuru:

- **Established PG Structural Engineering Laboratory** (Procurement of CTM, Rebound hammer, Proving rings, Pull-out testing equipment, Hot-water curing tank, Hot-air oven, upto amount of Rs.10 lakhs in Aug-till date 2019)
- **Established PG Computational Laboratory** (exclusively for M.Tech Structural Engineering Program)
- **M.Tech. (Structural Engineering)** got 3 years of Accreditation from NBA, till 30-06-2022 (1st term)
- **M.Tech. (Structural Engineering)** got 3 years of Accreditation from NBA, till 30-06-2025 (2nd term)
- **Consultancy works (list of clients):** South Western Railways, Bharatiya Reserve Bank Note Mudran Private Limited (BRBNMPL), CSIR-CFTRI, and So on..

Recognition's:

- External Subject Expert, **Board of Studies** - B.E., (Civil Engineering) 2024-25, Department of Civil Engineering, Malnad College of Engineering (MCE), Hassan.
- Subject expert, **Board of Studies** - B.E., (Civil Engineering) for the Period 2024-25, Department of Civil Engineering, P E S College of Engineering, Mandya.
- External Subject Expert, **Board of Studies** - B.E., (Civil Engineering) 2023, Department of Civil Engineering, Malnad College Of Engineering (MCE), Hassan.
- Subject expert, **Board of Studies** - B.E., (Civil Engineering) for the Period 2022-23, Department of Civil Engineering, P E S College of Engineering, Mandya.
- Subject expert, **Board of Studies** - M.Tech. (Computer Aided Design of Structures) for the Period 2020-22, Department of Civil Engineering, P E S College of Engineering, Mandya.
- **Doctoral Committee Member**, Dept. of Civil Engineering, B.M.S. College of Engineering, Bangalore. (2020 - till date)
- **Doctoral Committee Member**, Dept. of Civil Engineering, Vidhyavardhaka College of Engineering, Mysuru. (2023 - till date)

- **Doctoral Advisory Committee Member**, School of Mechanical Engineering, Vellore Institute of Technology (VIT), Vellore (2020-till date)
- **Doctoral Committee Member**, Dept. of Civil Engineering, The National Institute of Engineering, Mysuru. (2021 - till date)

Software skills:

- Operating system : M. S. Dos, Windows
 Programming language : C,
 Other professional software's : Microsoft Office
- STAAD Pro V8i 2008 (SE & CE), NISA/Civil v15/v17/v19.1 (Structural analysis & design package)
 - NISA/Display III & IV (F.E.A package)
 - PTC MATHCAD Express
 - Surfer 3.2 (Contouring, Gridding, & Surface Mapping)
 - AutoCAD R14 to 2005, 2010 & 2017 (Drafting package)
 - Image J (Image processing and analysis program)
 - DesignBuilder 2.2.5ver & 3.2ver, EnergyPlus, eQUEST 3.63, Autodesk ECOTECT (Building performance simulation software)
 - METEONOM (Weather file generator)
 - WUFI® (Wärme Und Feuchte Instationär) (Dynamic simulations of coupled heat and moisture transfer)
 - Design expert 6.0, Minitab 16, Origin 7.0 (Statistics package)
 - THERM 6.3.46 (Glazing system modeling software)
 - Climate consultant 5.4 (Climate responsive analysis program)
 - CalcuLuX (lighting design & simulation program)
 - PsycPro v1.1.0.16 (Psychrometric chart plotting software)
 - MATLAB 2017

Short Term Courses Attended under CEP:

- Five-day Short Term Course on "**Advanced Computing Tools in Civil Engineering (ACTCE 2017)**", Conducted by Department of Civil Engineering, Indian Institute of Technology Kharagpur (IITKghg), under Continuing Education Programme, held during 6th - 10th March 2017, at IIT Kharagpur Extension Centre, Kolkata, West-Bengal, India. (Coordinator: Prof. Sudhirkumar V. Barai)
- Three-day Short Term Course on "**Structural Analysis and Design**", Conducted by Department of Civil Engineering and Center for Continuing Education, Indian Institute of Technology Madras (IITM), under Continuing Education Programme, held during 23rd – 25th March 2017, at IIT Madras Campus, Chennai, India. (Coordinator: Prof. Satish Kumar S. R.)
- Five-day Short Term Course on "**Recent Advances in Transportation Engineering**", Conducted by Department of Civil Engineering, Indian Institute of Technology Delhi (IITD), under Continuing Education Programme, held during 5th - 9th March 2018, at IIT Delhi, India. (Coordinator: Prof. Aravind Krishna Swamy)
- Three-day Short Term Course on "**Recent Advances in Structural Dynamics & Structural Health Monitoring**", Conducted by Department of Civil Engineering, Indian Institute of Technology Varanasi (IIT-BHU), under Continuing Education Programme, held during 25th – 27th March 2019, at IIT (BHU) Varanasi, India. (Coordinator: Prof. Pabitra Ranjan Maiti)

- Two Week Course on "**Digital Transformation in Teaching Learning Process**", Course offered by IITB, TEQIP-3, NPIU during 6th - 22nd April 2020 (TEQIP Online Certification).
- One Week TEQIP Short Term Course on "**Ergonomics in the Era of Industry 4.0**", Course offered by IITG, by Department of Design, IIT Guwahati during 14th Dec – 18th Dec 2020.
- Five-day Short Term Course on "**Structural Fire Engineering**", Conducted at Department of Civil Engineering, Indian Institute of Science (IISc), under Continuing Education Programme, held during 22nd – 26th May 2023, at Indian Institute of Science (IISc), Bangalore, India. (Coordinator: Prof. C. S. Manohar)
- 12 weeks Online training Program on "**Performance Based Seismic Design**", Organized by the Department of Earthquake Engineering under the aegis of Continuing Education Centre, Indian Institute of Roorkee (IITR), Roorkee, India, held during 27th January 2024 to 04 th May 2024. (Coordinator: Prof. Yogendra Singh)
- Five-day Short Term Course on "**Finite Element Analysis: Nonlinear Dynamic Response & Soil-Structure Interaction**", (Supported by SPARC), Conducted at Department of Civil Engineering, Indian Institute of Science (IISc), under Continuing Education Programme, held during 15th – 19th July 2024, at Indian Institute of Science (IISc), Bangalore, India. (Coordinator: Prof. C. S. Manohar)

Continuing Professional Development (CPD) Courses:

- Continuing Professional Development (CPD) Course on "**The Efficient Use of GGBS in Concrete**", Organised by The Institute of Concrete Technology, UK, and LKAB Minerals Ltd, UK on Wednesday 13th May 2020 (**CPD 1 Hours**).
- Monash University Malaysia Structures Seminar 2021: "**Transforming to Prefabricated and Modular Construction**", Organised by Monash University Malaysia; Institute of Civil Engineers (ICE), UK; The Institute of Engineers, Malaysia; ACi, Malaysia Chapter on 2nd December 2021 (**CPD 3 Hours**).

MOOC Courses (Online):

- Course on "**Introduction to Mathematical Thinking**" November 2012, from Coursera
- Autodesk Building Performance Analysis Certificate, 2016 (Autodesk, USA)
- Course on "**How to use Energy University Site**", October 2016, from Schneider Electric, Energy University.
- Course on "**Building Envelope–US version**", October 2016, from Schneider Electric, Energy University.
- Courses from International Association for Bridge and Structural Engineering (IABSE), Zürich, Switzerland, 2016
- "**Reinforced Concrete Bridge Engineering**", September 2017, from NPTEL, IIT Kharagpur.
- "**Principles and Applications of Building Science**", March 2018, from NPTEL, IIT Roorkee.
- "**Sustainable Engineering Concepts & Life Cycle Analysis**", March 2018, from NPTEL, IIT Kharagpur.
- "**Strength of Materials**", October 2018, from NPTEL, IIT Kharagpur.
- "**Glass in Buildings: Design and Applications**", October 2018, from NPTEL, IIT Roorkee.
- "**Theory and Practice of Non Destructive Testing**" 2019, IIT Kharagpur.
- "**Advanced Topics in the Science and Technology of Concrete**", 2019, IIT Madras.

- “*Mechanical Ventilation for COVID-19*”, 2020, Harvard Medical School, Harvard, USA
- “*General Course on Intellectual Property*”, 2020, WIPO Academy, Geneva
- 2020 - Programming for Everybody (Getting Started with Python), Coursera
- 2020 - Teaching And Learning in General Programs (TALG), (Prof. N. J. Rao, IISc Bangalore)
- 2021 - Effective Writing (Prof. Binod Mishra, IIT Roorkee)
- 2021 - Introduction to Professional Scientific Communication (Prof. S. Ganesh, IIT Kanpur)
- 2021 - Introduction to the Patent Cooperation Treaty, WIPO Academy, Geneva
- 2021 - NBA Accreditation and Teaching - Learning in Engineering (NATE) (Prof. N. J. Rao, IISc Bangalore)
- 2021 - Accreditation and Outcome Based Learning (IIT Kharagpur)
- 2021 - Patent Drafting for Beginners, (IIT Madras)
- 2021 - The Science of Well-Being (Yale University), Coursera
- 2021 - Technical Drawing for Design and Drafting (Autodesk, USA)
- 2022 - Effective Engineering Teaching in Practice (IIT Madras)
- 2022 - Designing Learner-Centric MOOCs (IITB, Mumbai)
- 2022 - Outcome Based Pedagogic Principles for Effective Teaching (IIT Kharagpur)
- 2022 - Retrofitting and Rehabilitation of Civil Infrastructure (IIT Kharagpur)
- 2022 - Maintenance and Repair of Concrete Structures (IIT Madras)
- 2022 - Introduction to Research (IIT Madras)
- 2022 - Innovation by Design (IITB, Mumbai)
- 2022 - Managing Intellectual Property in Universities (IIT Madras)
- 2022 - Design of Steel Structures (IIT Kharagpur)
- 2023 - Roadmap for patent creation (IIT Kharagpur)
- 2023 - Design, Technology and Innovation (IIT Bombay)
- 2023 - Basic construction materials (IIT Madras)
- 2023 - Intellectual Property (IIT Madras)
- 2023 - Ethics In Engineering Practice (IIT Kharagpur)
- 2023 - Patent Law for Engineers and Scientists (IIT Madras)
- 2023 - Introduction To Basic Cognitive Processes (IIT Kanpur)
- 2023 - Building Materials and Composites (IIT Kharagpur)
- 2023 - Structural Analysis-I (IIT Kharagpur)
- 2023 - Advanced Reinforced Concrete Design (IIT Hyderabad)
- 2023 - Patent Search For Engineers And Lawyers (IIT Kharagpur)
- 2023 - Investment Risk Management, (Guided Project), Coursera
- 2023 - FEM-Linear, Nonlinear Analysis & Post-Processing (Guided Project), Coursera
- 2024 - How to Create an Online Course (The University of Edinburgh), Coursera

- 2024 - Solar Energy Basics (Capstone Project) (The State University of New York), Coursera
- 2024 - "MATLAB Onramp" from Mathworks Training Services
- 2024 - Concrete Technology (IIT Madras)
- 2024 - Environmental Impact Assessment (IIT Roorkee)
- 2024 - Modern Construction Materials (IIT Madras)
- 2024 - Teaching and Learning in Engineering (TALE) (Prof. N. J. Rao, IISc Bangalore)
- 2024 - Development and Applications of Special Concretes (IIT Kanpur)
- 2024 - Patent Law for Engineers and Scientists (IIT Madras)

Conferences/Seminars/Workshops Attended (*Annexure for details*)

- Workshops/Seminars : 26
- International Conferences : 09
- Training Programs / FDPs : 37

Workshops/Seminar attended:

- A Three-day Training Programme on “**Rain Water Harvesting System Design**”, held at Centre for Appropriate Rural Technologies (CART), N.I.E., Mysore, from 1st to 3rd November 2003.
- Build Tech – 2003 National Seminar on “**Infrastructure for a Better Tomorrow**” On 13th – 14th Dec 2003. Hosted by Builder’s Association of India (BAI) at Mysore
- National workshop on “**National Building Code of India – 2005**” On 28th – 29th July 2006, held at B.M.S., College of Engg. Bangalore, India.
- Second workshop under the Energy Efficient Buildings Workshops on “**Low Carbon Materials and Building Systems**”, on 17th – 22nd January 2011, at Centre for Sustainable Technologies, Indian Institute of Science, Bangalore, India
- Training Programme on “**GRIHA training programme for evaluators and trainers**”, organized by TERI & MNRE – ADaRSH Delhi, on 25th – 27th April 2011, at WIPRO limited Learning Centre F-01, SJP-1 Wipro-Corporate, Bangalore, India.
- One-day workshop on “**Project success through building information modelling**”, organized by Centre for Sustainable Technologies (CST), Indian Institute of Science (IISc), Indian Institute of Technology, Delhi (IITD) and AUTODESK, on 16th May 2013, at Hotel Oberoi, Bangalore, India.
- First Solar Energy Research Institute for India and the United States (SERIIUS) series symposium on “**Research directions in solar energy – 2014**”, organized by the ICER, Indian Institute of Science (IISc), on 1st – 2nd April 2014, at Satish Dhawan Auditorium, I.I.Sc, Bangalore.
- One-day workshop on “**Utilisation of solid waste in civil engineering construction**”, organized under TEQIP-II by Department of civil engineering, BMS College of engineering, Bangalore, on 5th April 2014.
- One-day workshop on “**Author workshop**”, organized by Springer Verlag and JRD Tata memorial Library, Indian Institute of Science on 12th December 2014, at Choksi Hall, Indian Institute of Science (IISc), Bangalore, India.
- One-day workshop on “**Emerging challenges of converting rural technologies to sustainable rural enterprises**”, organized by Centre for Sustainable Technologies (CST), Indian Institute of Science (IISc), and CTD, New Delhi, on 15th April 2015, CST, IISc, Bangalore.
- One-day workshop on “**Grid-Supportive Buildings: Opportunities and Challenges**”, Organized by CISBAT-2015 EPFL, Fraunhofer (IBP & ISE) Germany, RWTH Aachen University and German Federal Ministry for Economic Affairs and Energy, on 10th September 2015, at École polytechnique fédérale de Lausanne (EPFL), Lausanne, Switzerland.

- Master Training program on ECBC for “**ECBC Master Trainers**”, organized by BEE, New Delhi and IIIT Hyderabad on 19th – 20th September 2015, Hyderabad, India.
- Master Training program on ECBC for “**ECBC Master Trainers**”, organized by BEE, New Delhi and MNIT, Jaipur on 25th – 26th November 2016, Jaipur, India.
- One-day International workshop on “**Trans-boundary Water Sharing - Issues and Concerns**”, organized by Department of Civil Engineering, The National Institute of Engineering, Sponsored by Technical Education Quality Improvement Programme (TEQIP-II), on 4th January 2017, at The National Institute of Engineering, Mysuru, India.
- International Seminar on Trendsetting Structures, “**Recent Advances in Civil Engineering (RACE-17)**”, Organised by ACCE (I) Mysore center, held on 20th -21st Jan 2017 at Nityotsava, Mysuru, India.
- Two-day International Seminar on “**3D Printing Robotics & Automation in Construction**”, Organised by Builders’ Association of India, Mysore chapter, during 17th - 18th November 2017 held at Senate Bhavan, Manasagangothri, Mysuru.
- Two-day Workshop on “**Advanced RCC Design Workshop (By ETAB & Draftwin Software)**”, organized by Ambuja Foundations, during 29th – 30th November 2017 at AKC Thane, Mumbai.
- One-day colloquium on “**Liquid Retaining Concrete Structures**”, on 2nd December 2017 held at The National Institute of Engineering, Mysuru.
- Two-day Workshop on “**Challenges in Measurement of Flow in Streams and Other Open Channels**”, Organized by Department of Civil Engineering, The National Institute of Engineering, Mysuru, held during 27th – 28th April 2018.
- Five Days Online Workshop on "**MATLAB and It's Applications**", organized by Rajasthan Technical University, Kota and Sri Balaji College of Engineering and Technology, Jaipur held from 4th - 8th Jan 2021
- Two day International Workshop on "**Recent Advancements in Structural Engineering**" organized under Endowment Chair Activity on March 30 and 31, 2021 at M. S. Patel Department of Civil Engineering Chandubhai S. Patel Institute of Technology (CSPIT) Charotar University of Science and Technology (CHARUSAT), Changa, District: Anand, Gujarat, India. (Virtual)
- Five Days Online International Workshop on "**Advanced Seismology, Seismic Hazards and Earthquake Engineering: Theory, Simulation and Observations**", (ASSHEE), Department of Civil Engineering, Techno College of Engineering Agartala, India held during 13th -17th December 2021
- One Day National Workshop on “**Recent Advances in Geotechnics for Infrastructure (RAGI-2022)**”, Organised by ACCE (I) Mysore center, held on 28th May 2022, at Vidyavardhaka College of Engineering, Mysuru, India.
- Two day online 2nd International Webinar Series on “**Latest Advancement in Geoenviron – Structural Confluence**”, Collaboratively Organized by ASCE Indo Sri Lanka Sections & Mahendra Engineering College, Hyderabad, India, which held on 4th and 6th June 2022 (@ IST 7:00PM).
- Five Days Online National Webinar on "**Design & Construction of Steel Structure**", organized by Department of Civil Engineering, Vivekananda Institute of Technology, Bengaluru in association with Institute For Steel Development & Growth (INSDAG) and Construction Industry Development Academy from 6th to 10th June 2022.
- Two Day National Seminar on “**Recent Advances in Civil Engineering on "Innovative Infra in Civil Engineering"** (RACE-2023), Organised by ACCE (I) Mysore center, held on 3rd & 4th Feb 2023, at Mysore Builders' Charitable Trust (MBCT), Mysuru, India
- One-day Awareness programme on "**ORCID and INFLIBNET Services for Scholarly Communities**", Jointly organised by INFLIBNET centre, Gandhinagar in Collaboration with JAIN (Deemed-to-be University), Bengaluru, Karnataka, on 13th October 2023

Training programme attended:

- One-week Training Programme on “**Instructional Design and Delivery**” Sponsored by TEQIP-III and Organized by Computer Science Division, The National Institute of Engineering, Mysuru, held during 1st to 5th January 2018.
- Three-day Software Training programme on “**Project Management Tool Training - using Primavera 16.2 PPM Module**”, Organized by Department of Civil Engineering, The National Institute of Engineering, Mysuru, held during 19th to 21st February 2018.
- Two-day Software Training programme on “**Ground-water modeling software (GMS 10.3)**”, Organized by Department of Civil Engineering, The National Institute of Engineering, Mysuru, held during 19th to 21st February 2018.

International conferences attended:

- **International Symposium on Earthen Structures (ISES – 2007)** held on 22nd – 24th August 2007, at Indian Institute of Science (I.I.Sc), Bangalore, India.
- **Third Structural Engineers World Congress (SEWC – 2007)** held on 2nd – 7th November 2007, at Grand Ashok Hotel, Bangalore, India.
- **Third International Congress for Environmental Research (ICER – 2009)** held on 16th – 18th August 2009 at The University of Mauritius, Reduit, Mauritius.
- **4th International Conference on Advances in Energy Research (ICEAR – 2013)** held on 10th – 12th December 2013 at Indian Institute of Technology, Mumbai, India.
- **First Indo-Dutch International Conference, Design for Sustainable Well-being and Empowerment (DfWnE – 2014)** held on 12th – 14th June 2014 at Indian Institute of Science, Bangalore, India.
- 2nd IBPSA Italy conference, **Building Simulation Application 2015 (BSA – 2015)** held on at on 4th Feb – 6th Feb 2015 at Free University of Bozen - Bolzano, Bolzano, Italy.
- International conference on "**Future Buildings and Districts - Sustainability form Nano to Urban Scale**" (**CISBAT-2015**), Held on 9th – 11th September 2015, at École polytechnique fédérale de Lausanne (EPFL), Lausanne, Switzerland.
- 14th International conference of the International Building Performance Simulation Association (IBPSA), **1st Building Simulation Conference (BS 2015)** held on 7th Dec – 9th Dec 2015 at Novotel Hotel, HICC, Hyderabad, India.
- **International Symposium on Earthen Structures (ISES – 2018)** held on 22nd – 24th August 2018, held at JRD Tata Auditorium, NIAS, Indian Institute of Science (I.I.Sc), Bangalore, India.
- **International Conference on Material Science, Smart Structures and Applications (ICMSS 2020)**”, organized by Surya Engineering College, Erode, Tamil Nadu, India on held on 15th - 16th October 2020 (Virtual)
- 10th Online **International Conference on "Civil Engineering Trends and Challenges for Sustainability (CTCS 2020)**”, organized by NMAM Institute of Technology (NITTE), Nitte, Karnataka, India, which will be held on 22nd - 23rd December 2020. (Virtual)
- **1st International E-Conference on Sustainable Approach for Resilient Infrastructure (IC-SAFRI 2021)**, organized by Department of Civil Engineering, Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad, which held on 26th & 27th June 2021.
- **2nd International Conference On Sustainable Construction Technologies & Advancements In Civil Engineering (ScTACE 2021)**, organized by Department of Civil Engineering, Shri Vishnu Engineering College For Women, Bhimavaram, West Godavari, Andra Pradesh, which held on 14th to 16th October 2020.
- 11th Online International Conference on (under the umbrella of Multi-conference ICETE 2021) "**Civil Engineering Trends and Challenges for Sustainability (CTCS 2021)**”, organized by NMAM Institute of Technology (NITTE), Nitte, Karnataka, India, which will be held on 19th – 20th November 2021.

- One Day Conference on "**Karnataka Geotechnical Fusion**" (KGF 2023), Organized by Indian Geotechnical Society's Bengaluru, Surathkal, Hubli-Dharwad and Mysuru Chapters Held on 4th November 2023, at VVCE, Mysuru.

Training programme attended / Faculty Development Programs (FDP):

- Three-day Faculty Development Programme on "**NI LabVIEW and its Multidisciplinary Engineering Applications**", organized by Department of Mechanical Engineering, NIE, organized in association with National Instruments, and Embedded Systems Solutions, sponsored by Technical Education Quality Improvement Programme (TEQIP-II), held during 2nd - 4th March 2017, at The National Institute of Engineering, Mysuru, India.
- One-week Training Programme on "**Instructional Design and Delivery**" Sponsored by TEQIP-III and Organized by Computer Science Division, The National Institute of Engineering, Mysuru, held during 1st to 5th January 2018.
- Three-day Software Training programme on "**Project Management Tool Training - using Primavera 16.2 PPM Module**", Organized by Department of Civil Engineering, The National Institute of Engineering, Mysuru, held during 19th to 21st February 2018.
- Two-day Software Training programme on "**Ground-water modeling software (GMS 10.3)**", Organized by Department of Civil Engineering, The National Institute of Engineering, Mysuru, held during 19th to 21st February 2018.
- Two Day Faculty Development Program on "**Curriculum Design for Industry Needs**" Conducted by Teaching Learning Centre, Coimbatore Institute of Technology, Coimbatore under the aegis of Cluster Centre Approach at Vidyavardhaka College of Engineering, Mysuru held during 24th & 25th May 2019.
- One Week AICTE QIP Short Term Training Programme on "**Building Information Modelling**", organized by Department of Civil Engineering, SVCE in Association with CADD Center, Yelahanka, held at Sri Venkateshwara College of Engineering (SVCE) Bangalore during 8th -13th July 2019.
- Two-day workshop on "**Symposium on Collaborative Research**" Organised by P.E.S. College of Engineering, Mandya on 19th and 20th August, 2019 in collaboration with SPIU, Karnataka and in association with SJCE-Mysuru, NIE-Mysuru and MCE-Hassan at Hotel Preethi International, Mysuru.
- One Week online Faculty Development Program on "**Moodle Learning Management System**", Training organized at Tagore Institute of Engineering and Technology, Training is offered by the Spoken Tutorial Project, IIT Bombay, funded by the National Mission on Education through ICT, MHRD, Govt. of India, Held during 4th - 9th Jan 2020.
- Three Days Online Workshop on "**Revit Architecture**" organized by Department of Civil Engineering, Sri Venkateshwara College of Engineering, Bengaluru in association with Indian Concrete Institute and Institution's Innovation Council, Bengaluru from 10th – 12th May 2020.
- One Week online Faculty Development Program on "**Renewable Energy Sources: A Way Ahead**" organized by Department of Mechanical Engineering, Cummins College of Engineering for Women Nagpur in association with ASM International (American Society of Materials) Pune Chapter and ISHRAE Nagpur Chapter on 15th - 21st May 2020.
- 5-day online Faculty Development Program on "**Technology for Infrastructure Planning, Design, Monitoring and Management**", organized by Department of Civil Engineering, Nalla Malla Reddy Engineering College, Hyderabad during on 16th - 20th June 2020.
- One Week Short Term Training and Faculty Development Program on "**Recent Advancements in Civil Engineering: Challenges and Future Perspectives-Part II**", organized by Department of Civil Engineering, Shri Vishnu Engineering College for Women, Vishnupur, Bhimavaram, Andhra Pradesh during on 22nd - 27th June 2020.
- One-Week Online National Training Program on "**Disaster Risk, Vulnerability Assessment and Management**" jointly organized by National Institute of Disaster Management (NIDM), Delhi and Department of Civil Engineering, Delhi Technological University, Delhi during June 29th - July 3rd, 2020.

- One Week Faculty Development Program on “**Challenges in Civil Engineering**”, organized by Department of Civil Engineering, EWIT, in association with Indian Concrete Institute-BENC Student Chapter, Bangalore, held from 13th July 2020 to 18th July 2020
- One Week Faculty Development Program on “**Insights on Writing Research Proposals and Funding Opportunities**”, organized by Research & Facilities Group, St. Joseph Engineering College, Vamanjoor, Mangaluru held from 20th - 24th July 2020.
- 5-day Faculty Development Program on “**Advancements in Civil Engineering**”, organized by Department of Civil Engineering, PES Institute of technology & Management, Shivamogga held from 27th - 31st July 2020.
- 5-day Faculty Development Program on “**Smart and Sustainable Materials in Construction**”, organized by Department of Civil Engineering, Sri Venkateswara Institute of Science & Technology, Kadapa, held from 04th - 08th August 2020.
- 2 day online workshop on “**Application of Remote Sensing & GIS in Disaster Management**” organized by Vikrant Institute of Technology and Management, Gwalior (An Outreach Programme Network Centre of IIRS, ISRO, Dehradun) on 16th - 17th August 2020.
- One Week Short Term Training Program on “**Challenges and Remedies in Various fields of Civil Engineering Construction**”, Conducted by School of Civil Engineering, Vellore Institute of Technology (VIT), Chennai during 21st - 26th September 2020.
- Two Week Online FDP on “**Internet of Things: A Future Outlook in Civil Engineering**”- Phase I”, organized by the Department of Civil Engineering, NSS College of Engineering, Palakkad sponsored by All India Council for Technical Education (AICTE) held during 2nd to 14th November 2020
- Two Week Online FDP on “**Internet of Things: A Future Outlook in Civil Engineering**”- Phase II”, organized by the Department of Civil Engineering, NSS College of Engineering, Palakkad sponsored by All India Council for Technical Education (AICTE) held during 30th November to 12th December 2020.
- One Week Online FDP on “**Environmental Geotechnology**” organized by Mangalore Institute of Technology & Engineering, under AICTE Training And Learning (ATAL) Academy from 25th - 29th Jan 2021.
- 5-day online Faculty Development Program on “**Project Management with Primavera**” (Online Live FDP) Conducted by ICT Academy on 22th - 26th March 2021.
- 5-day online Faculty Development Program on “**Inculcating Universal Human Values in Technical Education**”, organized by All India Council for Technical Education (AICTE) from 17th - 21st May 2021.
- One Week Online FDP on “**Analysis and Design of Fiber Reinforced Polymer (FRP) Reinforced Concrete Structures**” Organized by Birla Institute of Technology & Science Pilani (BITS-Pilani), under AICTE Training And Learning (ATAL) Academy from 25th - 29th July 2021.
- One Week Online FDP on “**Structural Dynamics and Earthquake Resistant Design of Structures**”, Organized by Government College of Engineering-Salem, under AICTE Training And Learning (ATAL) Academy from 24th - 28th August 2021.
- One Week Online FDP on “**Design and Construction Practice of Bridges**”, Organized by the Department of Civil Engineering, Mangalore Institute of Technology & Engineering (MITE) from 30th August to 3rd September 2021.
- One Week Online FDP on “**Building Life and Fire Safety**”, Organized by School of Planning and Architecture (SPA), New Delhi, under AICTE Training And Learning (ATAL) Academy from 7th - 11th September 2021.
- One Week Online FDP on “**Management for Building Rehabilitation**”, Organized by School of Planning and Architecture (SPA), New Delhi, under AICTE Training And Learning (ATAL) Academy from 25th - 19th October 2021.
- One Week Online FDP on “**Recent & Emerging Trends in Structural Engineering**”, Organised by Bansal Institute of Engineering and Technology (BIET), Lucknow, India, In association with AICTE & IEEE, from 28th Feb to 5th March 2022.

- AICTE-VTU Joint Training Programme for Teachers from AICTE Approved & VTU Affiliated Technical Institutions, One Week Teachers Training Programme on “**Earthquake Resistant Design of Structures**”, Organized by Visvesvaraya Technological University, Centre for Post Graduate Studies, Bengaluru Region, Muddenahalli, Chikkaballapur from 16th to 20th May 2022.
- ISTE Approved One Week Online Short Term Training Program on “**Finite Element Analysis (FEA) Using ABAQUS and MATLAB**”, (In Blended Mode), Organized by Department of Mechanical Engineering, The National Institute of Engineering, Mysuru, from 27th June to 1st July, 2022.
- One Week Online International FDP on “**The Role of Artificial Intelligence in Renewable Energy Applications**”, Organized by Department of Electrical and Electronics Engineering, KPR Institute of Engineering and Technology, Coimbatore, Tamilnadu, India from 1st to 5th Aug 2022.
- Two days workshop on “**Non-Destructive Testing techniques and repair Material Characterization**” (NRMC-22), Sponsored by Science and Engineering Research Board (SERB) - Department of Science & Technology (DST) under Scientific Social Responsibility (SSR), Held at National Institute of Technology Karnataka (NITK), Surathkal, India, on 3rd & 4th November 2022. (Offline)
- Three-day International Virtual Workshop cum e-certification program on “**Advanced Analysis and Design of Steel Structures**” Organized by The Department of Civil Engineering, Birla Institute of Technology & Science Pilani (BITS-Pilani), Pilani Campus, India held during December 13th - 15th 2022.
- A 5-day Virtual Faculty Development Program on “**Sustainable Repair and Rehabilitation of Constructed Facilities**” Organized by School of Civil Engineering, Vellore Institute of Technology (VIT), Chennai in association with UltraTech Cement, India held during March 6th - 10th 2023.
- A Two-day Online Training Courses on “**Basics of Steel-Concrete Composite Construction & IS 11384:2022**”, Institute for Steel Development & Growth (INSDAG), Anandapur, Kolkata, India, held on March 17th & 18th, 2023
- One day E-Workshop on “**Seismic Safety of Masonry Structures**”, Held at Earthquake Engineering research Centre (EERC), Organized by IAStructE IIIT Hyderabad Student Chapter and Sponsored by SERB (DST, GoI) Under Scientific Responsibility (SSR) Policy, Held on 11th Nov 2023.
- One day Seminar on Indian Standard IS 16700:2023 Via online on “**Criteria For Structural Safety of Tall concrete Buildings - First Revision of IS-16700**”, Organized by Structural Engineering Forum of India (SEFI), In Collaboration with Bureau of India Standards & IAStructE and ISSE, on 9th Dec 2023.
- A Two-day Online Training Courses on “**Repair and Rehabilitation of Structures of Hydro Power Projects**”, Central Water and Power Research Station, Pune, held on 13th & 14th December 2023.

Students Project Guided (PhD, PG, & UG) Program

Funded Student Projects

Students	Year of KSCST Project	Academic Batch & Degree	Project Titles	Completed on	Funding Agency
Mr. Varchas Koushik, Mr. Shreekumar, Ms. Undaru Gauthami, and Mr. Vishwambhara	2018-19	2015-19 B.E. (Civil)	<i>Study of RC Jacketed Column and its Form work</i> <u>(42S SPP Sanctioned Project)</u>	June 2019	KSCST, IISc, Bangalore
Ms. Kumbala Anupa Nayak, Ms. K.T.Jyothsna, Ms. Kanchana B. N., and Mr. Kiran Kumar Patil	2019-20	2016-20 B.E. (Civil)	<i>Study of Structural Behavior of Floating Column</i> <u>(43S SPP Sanctioned Project)</u> **AWARDED** <u>"KSCST BEST PROJECT OF THE YEAR - 2020"</u>	August 2020 Awarded on Oct 2020	KSCST, IISc, Bangalore
Ms. Yogeshwari Ms. Thejaswini B.K. Ms. Srujana R. Mr. Rahulnayaka M.	2020-21	2017-21 B.E. (Civil)	<i>Studies on Cracks, Crack Patterns and Deflection in RC Beams under Different Boundary Conditions.</i> <u>(44S SPP Sanctioned Project)</u> **AWARDED** <u>"KSCST BEST PROJECT OF THE YEAR - 2021"</u>	Sept 2021 Awarded on Sept 2021	KSCST, IISc, Bangalore
Mr. Shamsheera P. E. Mr. Prashanth K. Mr. Srihari Rao G. Ms. Sanjana Mahesh	2020-21	2017-21 B.E. (Civil)	<i>Thermal Performance Behaviour of Rammed Earth Walls in Temperature Climatic Condition of India</i> <u>(44S SPP Sanctioned Project)</u>	Sept 2021	KSCST, IISc, Bangalore
Mr. Abhishek K. V.	2020-21	2019-21 M.Tech. (Str.)	<i>Behavioural Study of Gabion Boxes under Lateral Monotonic Loading and Repeated Cyclic Loading</i> <u>(44S SPP Sanctioned Project)</u>	Sept 2021	KSCST, IISc, Bangalore
Ms. Aishwarya K. M.	2021-22	2020-22 M.Tech. (Str.)	<i>An Experimental Study on Structural Performance of RC Beams Strengthened for Combined Flexure and Shear by Using NSM-GFRP Strips</i> <u>(45S SPP Sanctioned Project)</u>	Sept 2022	KSCST, IISc, Bangalore
Mr. Charan A. Ms. Aakanksha R. Mr. Nitheesh N.	2021-22	2018-22 B.E. (Civil)	<i>Study on Thermal Behaviour and Structural Behaviour of Rammed Earth Walls</i> <u>(45S SPP Sanctioned Project)</u>	Sept 2022	KSCST, IISc, Bangalore

Ms. Himarani C.K., Ms. Keerthanaram A.R., Mr. Harish Gowda D.S., Mr. Jashwanth Gowda M.V.	2019- 23	2019-23 B.E. (Civil)	<i>Thermal performance of residential buildings at different locations</i> <i><u>(46S SPP Sanctioned Project)</u></i>	Jul 2023	KSCST, IISc, Bangalore
Mr. Rohin Ashvij V. A.	2021- 23	2021-23 M.Tech. (Str.)	<i>An experimental study on the structural performance of full scale RC beams strengthened for shear only using NSM GFRP strips</i> <i><u>(46S SPP Sanctioned Project)</u></i>	Aug 2023	KSCST, IISc, Bangalore
Ms. Kaveramma A. V. Mr. Chandan K. R. Mr. Dhananjay Murthy K. Mr. Monglong Phom	2020- 24	2020-24 B.E. (Civil)	<i>Evaluating the structural behaviour and suitability of surface repair material used for repairing of concrete structural elements.</i> <i><u>(47S SPP Sanctioned Project)</u></i>	June 2024	KSCST, IISc, Bangalore
Mr. Kiran Kumar S. Mr. Hemanth Urs R. Mr. Mahendra N. Mr. Dhanush L.	2020- 24	2020-24 B.E. (Civil)	<i>Assessing the quality of drinking water filtered through commercial filters and designing suitable gravity water filters for residential usage</i> <i><u>(47S SPP Sanctioned Project)</u></i>	June 2024	KSCST, IISc, Bangalore
Ms. Soumya B. Gouda	2022- 24	2022-24 M.Tech. (Str.)	<i>Assessing the capacity of shear strengthened R.C beams by NSM-GFRP strips</i> <i><u>(47S SPP Sanctioned Project)</u></i>	Ongoing	KSCST, IISc, Bangalore

Doctoral Students – Ph.D.,

Students	Academic Batch	Project Titles	Status	University
Mrs. Lakshmi P S	2018	<i>Technical and Economical feasibility of using value Added Materials in Mortar and Masonry Unit</i>	PhD Awarded (Aug 2023)	VTU
Ms. Saksheshwari	2020	<i>Masonry Structures (Area of Research Work)</i>	Registered under QIP (Completed Contact Program)	VTU
Mrs. Meghana Jagadeesha	2023	<i>Building Thermal Comfort (Area of Research Work)</i>	Registered under QIP (Completed Contact Program)	VTU
Mr. Puneeth K	2024	<i>Development of Bio Based Building Material and Investigation on its Building Envelope Performance</i>	Registered (Part Time)	VTU

Mr. Manu Vijay	2015	<i>Fatigue Reliability Analysis of Concrete Bridges</i>	Registered (Part Time)	VTU
Mr. Amshith Kumar M J	2017	<i>A Study of Flexural Behavior of RC Slab with Hidden Beams</i>	Registered (Part Time)	VTU
Mrs. Latha P	2025	<i>Numerical Modeling and Experimental Studies into the Structural Rehabilitation and Retrofitting of Rigid Pavements and its Associated Elements</i>	Registered (Part Time)	VTU

Post-Graduate Level - M.Tech., (Str. Engg.)

Students	Academic Batch & Degree	Project Titles	Completed on	Scheme
Mr. Sharanabasava	2016-18	<i>Structural Performance of Steel Truss Joints</i>	July 2018	NIE (Autonomous)
Ms. Bhayva Shree	2016-18	<i>Thermo-Structural Analysis of RC Columns</i>	July 2018	NIE (Autonomous)
Mr. Abhilash Kumar K. A.	2017-19	<i>Seismic Performance of Adobe Building - Model Study of Bhunga House</i>	June 2019	NIE (Autonomous)
Ms. Sahana S.	2017-19	<i>Study on behavior of high rise RC and infill Wall structures</i>	Ongoing	NIE (Autonomous)
Mr. Rahul Digwal [With: Dr. Gourav K]	2017-19	<i>Structural Behavior of Self Compacting Concrete: Strength Properties</i>	July 2019	NIE (Autonomous)
Mr. Varun Kumar M R [With: Prof. T.H. Shadashiva Murthy]	2017-19	<i>Behaviour of Slab Deck Bridges</i>	July 2019	NIE (Autonomous)
Ms. Rashmi M.	2018-20	<i>Shear Strengthening of Structural Elements with Near Surface Mounted (NSM) Fibre Reinforced Polymer</i>	August 2020	NIE (Autonomous)
Mr. Ummar Shariff F.	2018-20	<i>Flexural Strengthening of Structural Elements with Near Surface Mounted (NSM) Fibre Reinforced Polymer</i>	Aug 2020	NIE (Autonomous)
Mr. Nitin J. Patil	2018-20	<i>Thermal Properties of Concrete made with Waste Foundry Sand as Fine Aggregates</i>	March 2021	NIE (Autonomous)
Mr. Chirdeep N. R. [With: Dr. G. S. Suresh]	2018-20	<i>Studies on Behavior of Gabion Walls Under Lateral Monotonic and Repeated Loading</i>	Sept 2020	NIE (Autonomous)
Ms. Sushma H. Metaguuda [With: Dr. G. Sarangapani]	2018-20	<i>Study of Behaviour Multi Storied Building with Flat Slab Subjected to Lateral Loads</i>	Aug 2020	NIE (Autonomous)
Mr. Pruthvi Raj S. [With: Dr. G. Sarangapani]	2018-20	<i>Study of Multi-Storied Building with Floating Columns Subjected to Lateral Loads</i>	Aug 2020	NIE (Autonomous)
Ms. Rashmi T.	2019-21	<i>Shear Strengthening of RC Beams by NSM Technique Using GFRP Strips</i>	Sept 2021	NIE (Autonomous)

Ms. Kusuma Y.	2019-21	<i>An Experimental Study on Flexural Performance of RC Beams Strengthened by NSM Technique Using GFRP Strips</i>	Sept 2021	NIE (Autonomous)
Mr. Abhishek K. V.	2019-21	<i>Behavioural Study of Gabion Boxes under Lateral Monotonic Loading and Repeated Cyclic Loading</i>	Sept 2021	NIE (Autonomous)
Ms. Aishwarya K. M.	2020-22	<i>Studies on Combined Flexure-Shear Behavior of R.C. Beams Strengthened by NSM Technique using GFRP Strips [ACCE(I) - Sundaram Merit Award 2022" for the Best M. Tech., (Structural Engineering) Thesis for year 2022, from ACCE(I) Bangalore Center]</i> <i>[2nd Prize in the Best M.Tech. Theses award-2022 from ACCE, Mysuru Chapter]</i>	Sept 2022	NIE (Autonomous)
Ms. Parvathi Nalwad	2020-22	<i>Theoretical investigation of the structural behavior of flexural member built using FI-RCC technology</i>	Sept 2022	NIE (Autonomous)
Mr. Rohin Ashvij V. A.	2021-23	<i>An experimental study on the structural performance of full scale RC beams strengthened for shear only using NSM GFRP strips</i>	Aug 2023	NIE (Autonomous)
Mr. Girish H.	2021-23	<i>An experimental study on the structural performance of full scale RC beams strengthened for flexure by using NSM GFRP strips</i>	Aug 2023	NIE (Autonomous)
Ms. Fiza Naaz	2022-24	<i>Assessing the flexural behavior of the R.C. Beams Strengthened by NSM Technique using GFRP Strip – Experimentally & Numerically (Tentative Title)</i>	Aug 2024	NIE (Autonomous)
Ms. Soumya B Gouda	2022-24	<i>Assessing the capacity of shear strengthened R.C beams by NSM-GFRP strips</i>	Aug 2024	NIE (Autonomous)
Ms. Sharanya S.	2023-25	<i>Structural Performance evaluation of NSM-GFRP Strengthened concrete beam: A numerical Approach</i>	Sept 2025	NIE (Autonomous)
Mr. Shrikanth M	2023-25	<i>Experimentally evaluating the flexural behavior of RC beams strengthened by NSM technique with GFRP strips</i>	Sept 2025	NIE (Autonomous)
Mr. Shivanagouda Biradar	2023-25	<i>Experimental study on shear strengthening of reinforced concrete beams using NSM-GFRP strip techniques</i>	Sept 2025	NIE (Autonomous)

Under-Graduate Level – B.E., (Civil Engg.)

Students	Academic Batch &	Project Titles	Completed on	Scheme
----------	------------------	----------------	--------------	--------

	Degree			
Mr. Swamy, Ms. Maheswari, Mr. Shivraj, & Mr. Prasanth	2014-17	<i>Design of Sea wall - An experimental study</i>	June 2017	VTU (2010 Scheme)
Mr. Suresh Babu, Mr. Raj Kishore, Mr. Harish & Mr. Shivkumar	2014-17	<i>Studies on the Performance of the Recharge-Pit Through Scale Model</i>	June 2017	VTU (2010 Scheme)
Mr. Akashya, Ms. Keerthana, & Ms. Hamsika	2014-18	<i>Mechanical Properties of Self Compacting Concrete by Different Curing Techniques</i>	May 2018	NIE (Autonomous)
Mr. Abhishek, Mr. Yeshwanth, Mr. Sathish, & Mr. Shashikantha	2015-18	<i>Studies on Structural Properties of Bricks in Mysuru</i>	Submitted	VTU (2010 Scheme)
Mr. Varchas Koushik, Mr. Sreekumar, M. Undaru Gauthami, & Mr. Vishwambhara	2015-19	<i>Study of RC Jacketed Column and its Form work</i>	June 2019	NIE (Autonomous)
Ms. Rajani A, Ms. Gopika Dinesh, Mr. Darshan N, & Mr. Basavaraj K P [With: Ms. Nikitha Anand V.]	2015-19	<i>Comparative Study of Reinforced Concrete and Pre-Stressed Concrete Flexural Elements Behavior</i>	June 2019	NIE (Autonomous)
Ms. Kumbala Anupa Nayak, Ms. K. T. Jyothsna, Ms. Kanchana B. N., & Ms. Kiran Kumar Patil	2016-20	<i>Study of Structural Behavior of Floating Column</i>	Aug 2020	NIE (Autonomous)
Ms. Ganavi H. L., Mr. Niranjan A. S., Mr. Guruprasad, & Mr. Abdul Sattar [With: Mrs. Nikitha Anand V.]	2016-20	<i>Experimental Studies on Bond Strength Between FRP Strips and Concrete</i>	Aug 2020	NIE (Autonomous)
Mr. Stuart J., Mr. Sushanth N., Mr. Vithesh P., & Ms. Indu M. [With: Mrs. Nikitha Anand V.]	2016-20	<i>Bond Characteristics of RC Beams Retrofitted with FRP Strips</i>	Aug 2020	NIE (Autonomous)
Ms. Afifa Mariyam N., Mr. Kallesh B.M., Mr. Avinash K., & Mr. Mahmada Jafer Savanur [With: Dr. G.Ravi]	2016-20	<i>Structural Behavior of Thin Layer Mortared Masonry</i>	Aug 2020	NIE (Autonomous)
Ms. Shamsheera P.E., Mr. Prashanth K.,	2017-21	<i>Thermal Performance Behaviour of Rammed Earth Walls in</i>	Sept 2021	NIE (Autonomous)

Mr. Srihari Rao G., & Ms. Sanjana Mahesh		<i>Temperature Climatic Condition of India (Tentative Title)</i>		
Ms. Yogeshwari, Ms. Thejaswini B.K., & Mr. Rahul Nayaka M.	2017-21	<i>Experimentally Studying the Behaviour of Cracks, Crack Patterns and Deflection in R.C. Beams under Different Boundary Conditions</i>	Sept 2021	NIE (Autonomous)
Mr. Adithya R., Ms. Manvitha A.Urs, Ms. Kavya K.N., & Mr. Abhishek V.Gowda [With: Mrs. SriRashmi S.]	2017-21	<i>Structural Performance of the Self-Healing Concrete</i>	Sept 2021	NIE (Autonomous)
Mr. Pavan Kumar G.R., Mr. Bharath R., Mr. Akshay R.Das, & Ms. Lakshmi Vishwakarma [With: Mrs. Nikitha Anand V.]	2017-21	<i>Structural Behaviour of Bamboo Reinforced Concrete Beams</i>	Sept 2021	NIE (Autonomous)
Mr. Dhanush S.R., Mr. Chethan V., Ms. Bhuvana C., & Mr. Bheemaraya [With: Mrs. Nikitha Anand V.]	2017-21	<i>Structural Characterization and Suitability of Manufactured Sand as Mortars in Construction</i>	Sept 2021	NIE (Autonomous)
Ms. Aakanksha R., Mr. Charan A., & Mr. Nitheesh N.	2018-22	<i>Structural and Thermal Behaviour of the Rammed Earth Walls in Temperature Climatic Condition</i>	Sept 2022	NIE (Autonomous)
Ms. Himarani C.K., Ms. Keerthanaram A.R., Mr. Harish Gowda D.S., & Mr. Jashwanth Gowda M.V.	2019-23	<i>Thermal performance of residential buildings at different locations</i>	Jul 2023	NIE (Autonomous)
Mr. Kiran Kumar S. Mr. Hemanth Urs R. Mr. Mahendra N., & Mr. Dhanush L.	2020-24	<i>Assessing the quality of drinking water filtered through commercial filters and designing suitable gravity water filters for residential usage</i>	June 2024	NIE (Autonomous)
Ms. Kaveramma A. V. Mr. Chandan K. R. Mr. Dhananjaya Murthy K., & Mr. Monglong Phom	2020-24	<i>Evaluating the structural behaviour and suitability of surface repair material used for repairing of concrete structural elements.</i>	June 2024	NIE (Autonomous)
Ms. Jyothika H. Y. Mr. Akshaya Kumar Ms. Hamsashree B. Mr. Akshay K.V.	2021-25	<i>Use of low-cost sensor and DAQ system for structural health monitoring for assessing structural condition of existing building structural elements</i>	May 2024	NIE (Autonomous)